

**APPENDIX A**

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**Air Quality CalEEMod Output Sheets**



GUSD Apartment Site Project (Existing) - Los Angeles-South Coast County, Annual

**GUSD Apartment Site Project (Existing)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	32.23	1000sqft	0.74	32,233.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>		2018	
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Existing uses

Vehicle Trips - According to GUSD Apartment Traffic Memo

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	8/17/2018	8/6/2018
tblVehicleTrips	WD_TR	11.03	14.37

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1315	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Energy	1.8100e-003	0.0165	0.0138	1.0000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	229.7319	229.7319	5.8500e-003	1.4700e-003	230.3155
Mobile	0.1487	0.7239	2.0367	5.7000e-003	0.4244	6.9700e-003	0.4313	0.1138	6.5600e-003	0.1203	0.0000	524.7946	524.7946	0.0327	0.0000	525.6112
Waste						0.0000	0.0000		0.0000	0.0000	6.0836	0.0000	6.0836	0.3595	0.0000	15.0720
Water						0.0000	0.0000		0.0000	0.0000	1.8173	57.4685	59.2858	0.1882	4.7200e-003	65.3952
<b>Total</b>	<b>0.2820</b>	<b>0.7403</b>	<b>2.0510</b>	<b>5.8000e-003</b>	<b>0.4244</b>	<b>8.2200e-003</b>	<b>0.4326</b>	<b>0.1138</b>	<b>7.8100e-003</b>	<b>0.1216</b>	<b>7.9010</b>	<b>811.9957</b>	<b>819.8967</b>	<b>0.5862</b>	<b>6.1900e-003</b>	<b>836.3947</b>

#### Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1315	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Energy	1.8100e-003	0.0165	0.0138	1.0000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	229.7319	229.7319	5.8500e-003	1.4700e-003	230.3155
Mobile	0.1487	0.7239	2.0367	5.7000e-003	0.4244	6.9700e-003	0.4313	0.1138	6.5600e-003	0.1203	0.0000	524.7946	524.7946	0.0327	0.0000	525.6112

Waste						0.0000	0.0000		0.0000	0.0000	6.0836	0.0000	6.0836	0.3595	0.0000	15.0720
Water						0.0000	0.0000		0.0000	0.0000	1.8173	57.4685	59.2858	0.1882	4.7200e-003	65.3952
<b>Total</b>	<b>0.2820</b>	<b>0.7403</b>	<b>2.0510</b>	<b>5.8000e-003</b>	<b>0.4244</b>	<b>8.2200e-003</b>	<b>0.4326</b>	<b>0.1138</b>	<b>7.8100e-003</b>	<b>0.1216</b>	<b>7.9010</b>	<b>811.9957</b>	<b>819.8967</b>	<b>0.5862</b>	<b>6.1900e-003</b>	<b>836.3947</b>

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

## 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
<b>Category</b>	<b>tons/yr</b>										<b>MT/yr</b>					
Regulatory Compliance	0.1487	0.7239	2.0367	5.7000e-003	0.4244	6.9700e-003	0.4313	0.1138	6.5600e-003	0.1203	0.0000	524.7946	524.7946	0.0327	0.0000	525.6112
Baseline	0.1487	0.7239	2.0367	5.7000e-003	0.4244	6.9700e-003	0.4313	0.1138	6.5600e-003	0.1203	0.0000	524.7946	524.7946	0.0327	0.0000	525.6112

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	463.19	79.29	33.84	1,117,883	1,117,883
<b>Total</b>	<b>463.19</b>	<b>79.29</b>	<b>33.84</b>	<b>1,117,883</b>	<b>1,117,883</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

#### 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 Regulatory						0.0000	0.0000		0.0000	0.0000	0.0000	211.8259	211.8259	5.5100e-003	1.1400e-003	212.3032
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	211.8259	211.8259	5.5100e-003	1.1400e-003	212.3032
NaturalGas Regulatory	1.8100e-003	0.0165	0.0138	1.0000e-004	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	0.0000	17.9060	17.9060	3.4000e-004	3.3000e-004	18.0124
NaturalGas Baseline	1.8100e-003	0.0165	0.0138	1.0000e-004	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	1.2500e-003	0.0000	17.9060	17.9060	3.4000e-004	3.3000e-004	18.0124

#### 5.2 Energy by Land Use - NaturalGas

##### Baseline

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
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Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	335546	1.8100e-003	0.0165	0.0138	1.0000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	17.9060	17.9060	3.4000e-004	3.3000e-004	18.0124
<b>Total</b>		<b>1.8100e-003</b>	<b>0.0165</b>	<b>0.0138</b>	<b>1.0000e-004</b>		<b>1.2500e-003</b>	<b>1.2500e-003</b>		<b>1.2500e-003</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>17.9060</b>	<b>17.9060</b>	<b>3.4000e-004</b>	<b>3.3000e-004</b>	<b>18.0124</b>

**Regulatory Compliance**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	335546	1.8100e-003	0.0165	0.0138	1.0000e-004		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	17.9060	17.9060	3.4000e-004	3.3000e-004	18.0124
<b>Total</b>		<b>1.8100e-003</b>	<b>0.0165</b>	<b>0.0138</b>	<b>1.0000e-004</b>		<b>1.2500e-003</b>	<b>1.2500e-003</b>		<b>1.2500e-003</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>17.9060</b>	<b>17.9060</b>	<b>3.4000e-004</b>	<b>3.3000e-004</b>	<b>18.0124</b>

**5.3 Energy by Land Use - Electricity**

**Baseline**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	418707	211.8259	5.5100e-003	1.1400e-003	212.3032
<b>Total</b>		<b>211.8259</b>	<b>5.5100e-003</b>	<b>1.1400e-003</b>	<b>212.3032</b>

## Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	418707	211.8259	5.5100e-003	1.1400e-003	212.3032
<b>Total</b>		<b>211.8259</b>	<b>5.5100e-003</b>	<b>1.1400e-003</b>	<b>212.3032</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					
Regulatory Compliance	0.1315	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Baseline	0.1315	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004

### 6.2 Area by SubCategory

#### Baseline



	ROG	NOx	CO	SO2	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	0.0149					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
<b>Total</b>	<b>0.1315</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.5000e-004</b>

## Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.0149					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
<b>Total</b>	<b>0.1315</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.5000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	59.2858	0.1882	4.7200e-003	65.3952
Baseline	59.2858	0.1882	4.7200e-003	65.3952

## 7.2 Water by Land Use

### Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	5.72836 / 3.51093	59.2858	0.1882	4.7200e-003	65.3952
<b>Total</b>		<b>59.2858</b>	<b>0.1882</b>	<b>4.7200e-003</b>	<b>65.3952</b>

### Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

General Office Building	5.72836 / 3.51093	59.2858	0.1882	4.7200e-003	65.3952
<b>Total</b>		<b>59.2858</b>	<b>0.1882</b>	<b>4.7200e-003</b>	<b>65.3952</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	6.0836	0.3595	0.0000	15.0720
Baseline	6.0836	0.3595	0.0000	15.0720

### 8.2 Waste by Land Use

#### Baseline

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.97	6.0836	0.3595	0.0000	15.0720
<b>Total</b>		<b>6.0836</b>	<b>0.3595</b>	<b>0.0000</b>	<b>15.0720</b>

## Regulatory Compliance

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.97	6.0836	0.3595	0.0000	15.0720
<b>Total</b>		<b>6.0836</b>	<b>0.3595</b>	<b>0.0000</b>	<b>15.0720</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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GUSD Apartment Site Project (Existing) - Los Angeles-South Coast County, Summer

**GUSD Apartment Site Project (Existing)**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	32.23	1000sqft	0.74	32,233.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>	2018		
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Existing uses

Vehicle Trips - According to GUSD Apartment Traffic Memo

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	8/17/2018	8/6/2018
tblVehicleTrips	WD_TR	11.03	14.37

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Energy	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
Mobile	1.1442	5.0508	15.4413	0.0434	3.1735	0.0511	3.2245	0.8495	0.0481	0.8976		4,399.9066	4,399.9066	0.2664		4,406.5665
<b>Total</b>	<b>1.8745</b>	<b>5.1410</b>	<b>15.5204</b>	<b>0.0439</b>	<b>3.1735</b>	<b>0.0579</b>	<b>3.2314</b>	<b>0.8495</b>	<b>0.0549</b>	<b>0.9044</b>		<b>4,508.0669</b>	<b>4,508.0669</b>	<b>0.2685</b>	<b>1.9800e-003</b>	<b>4,515.3700</b>

#### Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Energy	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
Mobile	1.1442	5.0508	15.4413	0.0434	3.1735	0.0511	3.2245	0.8495	0.0481	0.8976		4,399.9066	4,399.9066	0.2664		4,406.5665
<b>Total</b>	<b>1.8745</b>	<b>5.1410</b>	<b>15.5204</b>	<b>0.0439</b>	<b>3.1735</b>	<b>0.0579</b>	<b>3.2314</b>	<b>0.8495</b>	<b>0.0549</b>	<b>0.9044</b>		<b>4,508.0669</b>	<b>4,508.0669</b>	<b>0.2685</b>	<b>1.9800e-003</b>	<b>4,515.3700</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
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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
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## 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					
Regulatory Compliance	1.1442	5.0508	15.4413	0.0434	3.1735	0.0511	3.2245	0.8495	0.0481	0.8976		4,399.9066	4,399.9066	0.2664		4,406.5665
Baseline	1.1442	5.0508	15.4413	0.0434	3.1735	0.0511	3.2245	0.8495	0.0481	0.8976		4,399.9066	4,399.9066	0.2664		4,406.5665

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	463.19	79.29	33.84	1,117,883	1,117,883
Total	463.19	79.29	33.84	1,117,883	1,117,883

### 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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
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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 Regulatory	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
NaturalGas Baseline	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960

### 5.2 Energy by Land Use - NaturalGas

#### Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	919.303	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
<b>Total</b>		<b>9.9100e-003</b>	<b>0.0901</b>	<b>0.0757</b>	<b>5.4000e-004</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>108.1533</b>	<b>108.1533</b>	<b>2.0700e-003</b>	<b>1.9800e-003</b>	<b>108.7960</b>

## Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.919303	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
<b>Total</b>		<b>9.9100e-003</b>	<b>0.0901</b>	<b>0.0757</b>	<b>5.4000e-004</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>108.1533</b>	<b>108.1533</b>	<b>2.0700e-003</b>	<b>1.9800e-003</b>	<b>108.7960</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					
Regulatory Compliance	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Baseline	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003

### 6.2 Area by SubCategory

#### Baseline

	ROG	NOx	CO	SO2	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	0.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
<b>Total</b>	<b>0.7204</b>	<b>3.0000e-005</b>	<b>3.3400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>2.0000e-005</b>		<b>7.5400e-003</b>

## Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
<b>Total</b>	<b>0.7204</b>	<b>3.0000e-005</b>	<b>3.3400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>2.0000e-005</b>		<b>7.5400e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 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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GUSD Apartment Site Project (Existing) - Los Angeles-South Coast County, Winter

**GUSD Apartment Site Project (Existing)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	32.23	1000sqft	0.74	32,233.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2018
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Existing uses

Vehicle Trips - According to GUSD Apartment Traffic Memo

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	8/17/2018	8/6/2018
tblVehicleTrips	WD_TR	11.03	14.37

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Energy	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
Mobile	1.1187	5.2088	14.7377	0.0412	3.1735	0.0514	3.2249	0.8495	0.0484	0.8979		4,183.7178	4,183.7178	0.2647		4,190.3347
<b>Total</b>	<b>1.8490</b>	<b>5.2990</b>	<b>14.8167</b>	<b>0.0418</b>	<b>3.1735</b>	<b>0.0583</b>	<b>3.2317</b>	<b>0.8495</b>	<b>0.0552</b>	<b>0.9048</b>		<b>4,291.8782</b>	<b>4,291.8782</b>	<b>0.2668</b>	<b>1.9800e-003</b>	<b>4,299.1382</b>

#### Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Energy	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
Mobile	1.1187	5.2088	14.7377	0.0412	3.1735	0.0514	3.2249	0.8495	0.0484	0.8979		4,183.7178	4,183.7178	0.2647		4,190.3347
<b>Total</b>	<b>1.8490</b>	<b>5.2990</b>	<b>14.8167</b>	<b>0.0418</b>	<b>3.1735</b>	<b>0.0583</b>	<b>3.2317</b>	<b>0.8495</b>	<b>0.0552</b>	<b>0.9048</b>		<b>4,291.8782</b>	<b>4,291.8782</b>	<b>0.2668</b>	<b>1.9800e-003</b>	<b>4,299.1382</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
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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
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## 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					
Regulatory Compliance	1.1187	5.2088	14.7377	0.0412	3.1735	0.0514	3.2249	0.8495	0.0484	0.8979		4,183.7178	4,183.7178	0.2647		4,190.3347
Baseline	1.1187	5.2088	14.7377	0.0412	3.1735	0.0514	3.2249	0.8495	0.0484	0.8979		4,183.7178	4,183.7178	0.2647		4,190.3347

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	463.19	79.29	33.84	1,117,883	1,117,883
Total	463.19	79.29	33.84	1,117,883	1,117,883

### 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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
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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 Regulatory	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
NaturalGas Baseline	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960

### 5.2 Energy by Land Use - NaturalGas

#### Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	919.303	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
<b>Total</b>		<b>9.9100e-003</b>	<b>0.0901</b>	<b>0.0757</b>	<b>5.4000e-004</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>108.1533</b>	<b>108.1533</b>	<b>2.0700e-003</b>	<b>1.9800e-003</b>	<b>108.7960</b>

## Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.919303	9.9100e-003	0.0901	0.0757	5.4000e-004		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003		108.1533	108.1533	2.0700e-003	1.9800e-003	108.7960
<b>Total</b>		<b>9.9100e-003</b>	<b>0.0901</b>	<b>0.0757</b>	<b>5.4000e-004</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>6.8500e-003</b>	<b>6.8500e-003</b>		<b>108.1533</b>	<b>108.1533</b>	<b>2.0700e-003</b>	<b>1.9800e-003</b>	<b>108.7960</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					
Regulatory Compliance	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
Baseline	0.7204	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003

### 6.2 Area by SubCategory

#### Baseline

	ROG	NOx	CO	SO2	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	0.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
<b>Total</b>	<b>0.7204</b>	<b>3.0000e-005</b>	<b>3.3400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>2.0000e-005</b>		<b>7.5400e-003</b>

## Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0500e-003	7.0500e-003	2.0000e-005		7.5400e-003
<b>Total</b>	<b>0.7204</b>	<b>3.0000e-005</b>	<b>3.3400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>2.0000e-005</b>		<b>7.5400e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 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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GUSD Apartment Site Project - Los Angeles-South Coast County, Annual

**GUSD Apartment Site Project**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	0.40	97,600.00	0
Other Non-Asphalt Surfaces	69.17	1000sqft	0.00	41,288.00	0
Apartments Mid Rise	198.00	Dwelling Unit	1.40	176,769.00	566

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2022
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Other non-asphalt uses include common open space and landscape areas
- Construction Phase - Construction duration approximately 22 months
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Scholl Canyon Landfill = 13.2 miles round trip

Demolition -

Grading - Export of approximately 19,004 cy of soil

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, SCAQMD recommends Tier 3

Compliant with SCAQMD Rule 403 - Fugitive Dust

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	463.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	168.30	0.00
tblFireplaces	NumberNoFireplace	19.80	0.00
tblFireplaces	NumberWood	9.90	0.00
tblGrading	AcresOfGrading	22.50	1.80
tblGrading	MaterialExported	0.00	19,004.00
tblLandUse	LandUseSquareFeet	69,170.00	41,288.00



tblLandUse	LandUseSquareFeet	198,000.00	176,769.00
tblLandUse	LotAcreage	2.20	0.40
tblLandUse	LotAcreage	1.59	0.00
tblLandUse	LotAcreage	5.21	1.40
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	9.90	0.00
tblWoodstoves	NumberNoncatalytic	9.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Baseline 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	0.0510	0.6367	0.2962	8.5000e-004	0.1046	0.0250	0.1295	0.0457	0.0232	0.0688	0.0000	79.4709	79.4709	0.0146	0.0000	79.8352
2020	0.3856	2.7195	2.7625	7.0500e-003	0.3717	0.1077	0.4793	0.1190	0.1034	0.2224	0.0000	626.8040	626.8040	0.0632	0.0000	628.3834
2021	0.9165	2.2858	2.6907	6.7300e-003	0.2989	0.0893	0.3881	0.0801	0.0859	0.1661	0.0000	595.6583	595.6583	0.0569	0.0000	597.0804
<b>Maximum</b>	<b>0.9165</b>	<b>2.7195</b>	<b>2.7625</b>	<b>7.0500e-003</b>	<b>0.3717</b>	<b>0.1077</b>	<b>0.4793</b>	<b>0.1190</b>	<b>0.1034</b>	<b>0.2224</b>	<b>0.0000</b>	<b>626.8040</b>	<b>626.8040</b>	<b>0.0632</b>	<b>0.0000</b>	<b>628.3834</b>

**Regulatory Compliance 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	0.0168	0.3875	0.3248	8.5000e-004	0.0502	0.0126	0.0627	0.0203	0.0126	0.0328	0.0000	79.4709	79.4709	0.0146	0.0000	79.8351
2020	0.2095	2.2795	2.8213	7.0500e-003	0.3277	0.0944	0.4222	0.0954	0.0941	0.1895	0.0000	626.8038	626.8038	0.0632	0.0000	628.3831
2021	0.7721	2.0890	2.7692	6.7300e-003	0.2989	0.0944	0.3933	0.0801	0.0942	0.1743	0.0000	595.6580	595.6580	0.0569	0.0000	597.0801
<b>Maximum</b>	<b>0.7721</b>	<b>2.2795</b>	<b>2.8213</b>	<b>7.0500e-003</b>	<b>0.3277</b>	<b>0.0944</b>	<b>0.4222</b>	<b>0.0954</b>	<b>0.0942</b>	<b>0.1895</b>	<b>0.0000</b>	<b>626.8038</b>	<b>626.8038</b>	<b>0.0632</b>	<b>0.0000</b>	<b>628.3831</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>26.22</b>	<b>15.70</b>	<b>-2.88</b>	<b>0.00</b>	<b>12.69</b>	<b>9.21</b>	<b>11.91</b>	<b>20.02</b>	<b>5.45</b>	<b>13.26</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 Baseline ROG + NOX (tons/quarter)	Maximum Regulatory Compliance ROG + NOX (tons/quarter)
1	10-22-2019	1-21-2020	0.8747	0.5245
2	1-22-2020	4-21-2020	0.7770	0.6038
3	4-22-2020	7-21-2020	0.7553	0.6220
4	7-22-2020	10-21-2020	0.7649	0.6301
5	10-22-2020	1-21-2021	0.7548	0.6303
6	1-22-2021	4-21-2021	0.6888	0.6010
7	4-22-2021	7-21-2021	0.6925	0.6038
8	7-22-2021	9-30-2021	0.6305	0.5602
		<b>Highest</b>	<b>0.8747</b>	<b>0.6303</b>

**2.2 Overall Operational  
Baseline Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7671	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242
Energy	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	783.4100	783.4100	0.0197	5.4800e-003	785.5345
Mobile	0.3354	1.7663	4.6286	0.0169	1.3970	0.0141	1.4111	0.3745	0.0132	0.3876	0.0000	1,560.8967	1,560.8967	0.0803	0.0000	1,562.9030
Waste						0.0000	0.0000		0.0000	0.0000	18.4884	0.0000	18.4884	1.0926	0.0000	45.8043
Water						0.0000	0.0000		0.0000	0.0000	4.0927	130.6926	134.7853	0.4238	0.0106	148.5467
<b>Total</b>	<b>1.1123</b>	<b>1.8740</b>	<b>6.7125</b>	<b>0.0176</b>	<b>1.3970</b>	<b>0.0322</b>	<b>1.4292</b>	<b>0.3745</b>	<b>0.0313</b>	<b>0.4058</b>	<b>22.5812</b>	<b>2,478.3425</b>	<b>2,500.9237</b>	<b>1.6196</b>	<b>0.0161</b>	<b>2,546.2126</b>

### Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7671	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242
Energy	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	783.4100	783.4100	0.0197	5.4800e-003	785.5345
Mobile	0.3040	1.5536	3.8639	0.0137	1.1199	0.0116	1.1315	0.3002	0.0108	0.3110	0.0000	1,267.9015	1,267.9015	0.0668	0.0000	1,269.5707
Waste						0.0000	0.0000		0.0000	0.0000	18.4884	0.0000	18.4884	1.0926	0.0000	45.8043
Water						0.0000	0.0000		0.0000	0.0000	3.2742	110.9080	114.1822	0.3392	8.5400e-003	125.2056
<b>Total</b>	<b>1.0809</b>	<b>1.6613</b>	<b>5.9478</b>	<b>0.0144</b>	<b>1.1199</b>	<b>0.0297</b>	<b>1.1496</b>	<b>0.3002</b>	<b>0.0289</b>	<b>0.3291</b>	<b>21.7626</b>	<b>2,165.5627</b>	<b>2,187.3254</b>	<b>1.5215</b>	<b>0.0140</b>	<b>2,229.5393</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>2.82</b>	<b>11.35</b>	<b>11.39</b>	<b>18.12</b>	<b>19.83</b>	<b>7.97</b>	<b>19.57</b>	<b>19.83</b>	<b>7.67</b>	<b>18.90</b>	<b>3.62</b>	<b>12.62</b>	<b>12.54</b>	<b>6.06</b>	<b>12.97</b>	<b>12.44</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/22/2019	11/18/2019	5	20	
2	Site Preparation	Site Preparation	11/19/2019	11/20/2019	5	2	
3	Grading	Grading	11/21/2019	2/12/2020	5	60	
4	Building Construction	Building Construction	2/13/2020	11/22/2021	5	463	
5	Architectural Coating	Architectural Coating	9/22/2021	11/22/2021	5	44	
6	Paving	Paving	10/22/2021	11/22/2021	5	22	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.8

Acres of Paving: 0.4

Residential Indoor: 357,957; Residential Outdoor: 119,319; 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20



Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	2.4000e-003	0.0000	2.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
<b>Total</b>	<b>0.0230</b>	<b>0.2268</b>	<b>0.1489</b>	<b>2.4000e-004</b>	<b>0.0159</b>	<b>0.0129</b>	<b>0.0287</b>	<b>2.4000e-003</b>	<b>0.0120</b>	<b>0.0144</b>	<b>0.0000</b>	<b>21.4161</b>	<b>21.4161</b>	<b>5.4500e-003</b>	<b>0.0000</b>	<b>21.5524</b>

**Baseline Construction Off-Site**

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
Category	tons/yr										MT/yr					
Hauling	5.1000e-004	0.0178	3.6400e-003	4.0000e-005	8.3000e-004	6.0000e-005	8.9000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	4.0244	4.0244	3.1000e-004	0.0000	4.0322
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	6.5000e-004	5.4000e-004	5.9000e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3694	1.3694	5.0000e-005	0.0000	1.3705
<b>Total</b>	<b>1.1600e-003</b>	<b>0.0183</b>	<b>9.5400e-003</b>	<b>6.0000e-005</b>	<b>2.2500e-003</b>	<b>7.0000e-005</b>	<b>2.3300e-003</b>	<b>6.1000e-004</b>	<b>6.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>5.3938</b>	<b>5.3938</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>5.4027</b>

**Regulatory Compliance Construction On-Site**

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
Category	tons/yr										MT/yr					
Fugitive Dust					6.1900e-003	0.0000	6.1900e-003	9.4000e-004	0.0000	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6200e-003	0.1210	0.1542	2.4000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524

Total	5.6200e-003	0.1210	0.1542	2.4000e-004	6.1900e-003	7.1800e-003	0.0134	9.4000e-004	7.1800e-003	8.1200e-003	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
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### Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	5.1000e-004	0.0178	3.6400e-003	4.0000e-005	8.3000e-004	6.0000e-005	8.9000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	4.0244	4.0244	3.1000e-004	0.0000	4.0322
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	6.5000e-004	5.4000e-004	5.9000e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3694	1.3694	5.0000e-005	0.0000	1.3705
<b>Total</b>	<b>1.1600e-003</b>	<b>0.0183</b>	<b>9.5400e-003</b>	<b>6.0000e-005</b>	<b>2.2500e-003</b>	<b>7.0000e-005</b>	<b>2.3300e-003</b>	<b>6.1000e-004</b>	<b>6.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>5.3938</b>	<b>5.3938</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>5.4027</b>

### 3.3 Site Preparation - 2019

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0195	7.8900e-003	2.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
<b>Total</b>	<b>1.7100e-003</b>	<b>0.0195</b>	<b>7.8900e-003</b>	<b>2.0000e-005</b>	<b>5.8000e-003</b>	<b>8.8000e-004</b>	<b>6.6800e-003</b>	<b>2.9500e-003</b>	<b>8.1000e-004</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>1.5467</b>	<b>1.5467</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5589</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	4.0000e-005	3.0000e-005	3.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0843	0.0843	0.0000	0.0000	0.0843
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0843</b>	<b>0.0843</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0843</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2600e-003	0.0000	2.2600e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2000e-004	8.4100e-003	9.8200e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
<b>Total</b>	<b>4.2000e-004</b>	<b>8.4100e-003</b>	<b>9.8200e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>3.7000e-004</b>	<b>2.6300e-003</b>	<b>1.1500e-003</b>	<b>3.7000e-004</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>1.5467</b>	<b>1.5467</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5589</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	4.0000e-005	3.0000e-005	3.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0843	0.0843	0.0000	0.0000	0.0843
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0843</b>	<b>0.0843</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0843</b>

### 3.4 Grading - 2019

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive 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					0.0675	0.0000	0.0675	0.0363	0.0000	0.0363	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.2325	0.0958	2.0000e-004		0.0107	0.0107		9.8200e-003	9.8200e-003	0.0000	18.3684	18.3684	5.8100e-003	0.0000	18.5137
<b>Total</b>	<b>0.0206</b>	<b>0.2325</b>	<b>0.0958</b>	<b>2.0000e-004</b>	<b>0.0675</b>	<b>0.0107</b>	<b>0.0782</b>	<b>0.0363</b>	<b>9.8200e-003</b>	<b>0.0461</b>	<b>0.0000</b>	<b>18.3684</b>	<b>18.3684</b>	<b>5.8100e-003</b>	<b>0.0000</b>	<b>18.5137</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9900e-003	0.1391	0.0284	3.2000e-004	0.0118	4.4000e-004	0.0122	3.0700e-003	4.2000e-004	3.5000e-003	0.0000	31.4398	31.4398	2.4100e-003	0.0000	31.5002
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.8000e-004	5.2700e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2219	1.2219	4.0000e-005	0.0000	1.2229
<b>Total</b>	<b>4.5700e-003</b>	<b>0.1396</b>	<b>0.0337</b>	<b>3.3000e-004</b>	<b>0.0130</b>	<b>4.5000e-004</b>	<b>0.0135</b>	<b>3.4100e-003</b>	<b>4.3000e-004</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>32.6617</b>	<b>32.6617</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>32.7231</b>

### Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive 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					0.0263	0.0000	0.0263	0.0141	0.0000	0.0141	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-003	0.1001	0.1172	2.0000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	18.3684	18.3684	5.8100e-003	0.0000	18.5136
<b>Total</b>	<b>5.0000e-003</b>	<b>0.1001</b>	<b>0.1172</b>	<b>2.0000e-004</b>	<b>0.0263</b>	<b>4.5000e-003</b>	<b>0.0308</b>	<b>0.0141</b>	<b>4.5000e-003</b>	<b>0.0186</b>	<b>0.0000</b>	<b>18.3684</b>	<b>18.3684</b>	<b>5.8100e-003</b>	<b>0.0000</b>	<b>18.5136</b>

### Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9900e-003	0.1391	0.0284	3.2000e-004	0.0118	4.4000e-004	0.0122	3.0700e-003	4.2000e-004	3.5000e-003	0.0000	31.4398	31.4398	2.4100e-003	0.0000	31.5002
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.8000e-004	5.2700e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2219	1.2219	4.0000e-005	0.0000	1.2229
<b>Total</b>	<b>4.5700e-003</b>	<b>0.1396</b>	<b>0.0337</b>	<b>3.3000e-004</b>	<b>0.0130</b>	<b>4.5000e-004</b>	<b>0.0135</b>	<b>3.4100e-003</b>	<b>4.3000e-004</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>32.6617</b>	<b>32.6617</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>32.7231</b>

### 3.4 Grading - 2020

#### Baseline Construction On-Site



Off-Road	5.3500e-003	0.1070	0.1253	2.2000e-004		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	19.2038	19.2038	6.2100e-003	0.0000	19.3591
<b>Total</b>	<b>5.3500e-003</b>	<b>0.1070</b>	<b>0.1253</b>	<b>2.2000e-004</b>	<b>0.0281</b>	<b>4.8100e-003</b>	<b>0.0329</b>	<b>0.0151</b>	<b>4.8100e-003</b>	<b>0.0199</b>	<b>0.0000</b>	<b>19.2038</b>	<b>19.2038</b>	<b>6.2100e-003</b>	<b>0.0000</b>	<b>19.3591</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9500e-003	0.1401	0.0295	3.4000e-004	0.0119	3.8000e-004	0.0123	3.1200e-003	3.7000e-004	3.4800e-003	0.0000	33.2907	33.2907	2.5000e-003	0.0000	33.3533
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	5.7000e-004	4.6000e-004	5.1000e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2665	1.2665	4.0000e-005	0.0000	1.2675
<b>Total</b>	<b>4.5200e-003</b>	<b>0.1405</b>	<b>0.0346</b>	<b>3.5000e-004</b>	<b>0.0132</b>	<b>3.9000e-004</b>	<b>0.0136</b>	<b>3.4800e-003</b>	<b>3.8000e-004</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>34.5572</b>	<b>34.5572</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>34.6208</b>

**3.5 Building Construction - 2020**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.2345	1.7080	1.5232	2.5500e-003		0.0919	0.0919		0.0888	0.0888	0.0000	209.6812	209.6812	0.0389	0.0000	210.6543
<b>Total</b>	<b>0.2345</b>	<b>1.7080</b>	<b>1.5232</b>	<b>2.5500e-003</b>		<b>0.0919</b>	<b>0.0919</b>		<b>0.0888</b>	<b>0.0888</b>	<b>0.0000</b>	<b>209.6812</b>	<b>209.6812</b>	<b>0.0389</b>	<b>0.0000</b>	<b>210.6543</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0184	0.5507	0.1491	1.3000e-003	0.0320	2.5600e-003	0.0346	9.2400e-003	2.4500e-003	0.0117	0.0000	126.2502	126.2502	8.0200e-003	0.0000	126.4508
Worker	0.1072	0.0864	0.9556	2.6200e-003	0.2544	2.1700e-003	0.2566	0.0676	2.0000e-003	0.0696	0.0000	237.1116	237.1116	7.4700e-003	0.0000	237.2984
<b>Total</b>	<b>0.1256</b>	<b>0.6371</b>	<b>1.1047</b>	<b>3.9200e-003</b>	<b>0.2864</b>	<b>4.7300e-003</b>	<b>0.2911</b>	<b>0.0768</b>	<b>4.4500e-003</b>	<b>0.0813</b>	<b>0.0000</b>	<b>363.3618</b>	<b>363.3618</b>	<b>0.0155</b>	<b>0.0000</b>	<b>363.7492</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0740	1.3949	1.5568	2.5500e-003		0.0845	0.0845		0.0845	0.0845	0.0000	209.6809	209.6809	0.0389	0.0000	210.6540
<b>Total</b>	<b>0.0740</b>	<b>1.3949</b>	<b>1.5568</b>	<b>2.5500e-003</b>		<b>0.0845</b>	<b>0.0845</b>		<b>0.0845</b>	<b>0.0845</b>	<b>0.0000</b>	<b>209.6809</b>	<b>209.6809</b>	<b>0.0389</b>	<b>0.0000</b>	<b>210.6540</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0184	0.5507	0.1491	1.3000e-003	0.0320	2.5600e-003	0.0346	9.2400e-003	2.4500e-003	0.0117	0.0000	126.2502	126.2502	8.0200e-003	0.0000	126.4508
Worker	0.1072	0.0864	0.9556	2.6200e-003	0.2544	2.1700e-003	0.2566	0.0676	2.0000e-003	0.0696	0.0000	237.1116	237.1116	7.4700e-003	0.0000	237.2984
<b>Total</b>	<b>0.1256</b>	<b>0.6371</b>	<b>1.1047</b>	<b>3.9200e-003</b>	<b>0.2864</b>	<b>4.7300e-003</b>	<b>0.2911</b>	<b>0.0768</b>	<b>4.4500e-003</b>	<b>0.0813</b>	<b>0.0000</b>	<b>363.3618</b>	<b>363.3618</b>	<b>0.0155</b>	<b>0.0000</b>	<b>363.7492</b>

### 3.5 Building Construction - 2021

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.2103	1.5818	1.4963	2.5600e-003		0.0794	0.0794		0.0767	0.0767	0.0000	210.5952	210.5952	0.0376	0.0000	211.5352
<b>Total</b>	<b>0.2103</b>	<b>1.5818</b>	<b>1.4963</b>	<b>2.5600e-003</b>		<b>0.0794</b>	<b>0.0794</b>		<b>0.0767</b>	<b>0.0767</b>	<b>0.0000</b>	<b>210.5952</b>	<b>210.5952</b>	<b>0.0376</b>	<b>0.0000</b>	<b>211.5352</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0159	0.5037	0.1366	1.3000e-003	0.0322	1.0300e-003	0.0332	9.2800e-003	9.8000e-004	0.0103	0.0000	125.8119	125.8119	7.7200e-003	0.0000	126.0048
Worker	0.1003	0.0781	0.8817	2.5500e-003	0.2555	2.1100e-003	0.2576	0.0679	1.9400e-003	0.0698	0.0000	230.5759	230.5759	6.7900e-003	0.0000	230.7455
<b>Total</b>	<b>0.1162</b>	<b>0.5818</b>	<b>1.0183</b>	<b>3.8500e-003</b>	<b>0.2877</b>	<b>3.1400e-003</b>	<b>0.2908</b>	<b>0.0771</b>	<b>2.9200e-003</b>	<b>0.0801</b>	<b>0.0000</b>	<b>356.3878</b>	<b>356.3878</b>	<b>0.0145</b>	<b>0.0000</b>	<b>356.7503</b>

### Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0743	1.4009	1.5635	2.5600e-003		0.0849	0.0849		0.0849	0.0849	0.0000	210.5950	210.5950	0.0376	0.0000	211.5349
<b>Total</b>	<b>0.0743</b>	<b>1.4009</b>	<b>1.5635</b>	<b>2.5600e-003</b>		<b>0.0849</b>	<b>0.0849</b>		<b>0.0849</b>	<b>0.0849</b>	<b>0.0000</b>	<b>210.5950</b>	<b>210.5950</b>	<b>0.0376</b>	<b>0.0000</b>	<b>211.5349</b>

### Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0159	0.5037	0.1366	1.3000e-003	0.0322	1.0300e-003	0.0332	9.2800e-003	9.8000e-004	0.0103	0.0000	125.8119	125.8119	7.7200e-003	0.0000	126.0048
Worker	0.1003	0.0781	0.8817	2.5500e-003	0.2555	2.1100e-003	0.2576	0.0679	1.9400e-003	0.0698	0.0000	230.5759	230.5759	6.7900e-003	0.0000	230.7455
<b>Total</b>	<b>0.1162</b>	<b>0.5818</b>	<b>1.0183</b>	<b>3.8500e-003</b>	<b>0.2877</b>	<b>3.1400e-003</b>	<b>0.2908</b>	<b>0.0771</b>	<b>2.9200e-003</b>	<b>0.0801</b>	<b>0.0000</b>	<b>356.3878</b>	<b>356.3878</b>	<b>0.0145</b>	<b>0.0000</b>	<b>356.7503</b>

### **3.6 Architectural Coating - 2021**

#### Baseline Construction On-Site





Off-Road	1.3100e-003	0.0299	0.0403	7.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
<b>Total</b>	<b>0.5737</b>	<b>0.0299</b>	<b>0.0403</b>	<b>7.0000e-005</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>5.6172</b>	<b>5.6172</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.6268</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	3.7900e-003	2.9500e-003	0.0333	1.0000e-004	9.6400e-003	8.0000e-005	9.7200e-003	2.5600e-003	7.0000e-005	2.6300e-003	0.0000	8.7025	8.7025	2.6000e-004	0.0000	8.7089
<b>Total</b>	<b>3.7900e-003</b>	<b>2.9500e-003</b>	<b>0.0333</b>	<b>1.0000e-004</b>	<b>9.6400e-003</b>	<b>8.0000e-005</b>	<b>9.7200e-003</b>	<b>2.5600e-003</b>	<b>7.0000e-005</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>8.7025</b>	<b>8.7025</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.7089</b>

**3.7 Paving - 2021**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	8.5100e-003	0.0852	0.0974	1.5000e-004		4.5700e-003	4.5700e-003		4.2100e-003	4.2100e-003	0.0000	12.9415	12.9415	4.1000e-003	0.0000	13.0440
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>8.5100e-003</b>	<b>0.0852</b>	<b>0.0974</b>	<b>1.5000e-004</b>		<b>4.5700e-003</b>	<b>4.5700e-003</b>		<b>4.2100e-003</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>12.9415</b>	<b>12.9415</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0440</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	6.2000e-004	4.8000e-004	5.4100e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4142	1.4142	4.0000e-005	0.0000	1.4152
<b>Total</b>	<b>6.2000e-004</b>	<b>4.8000e-004</b>	<b>5.4100e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>1.0000e-005</b>	<b>1.5800e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4142</b>	<b>1.4142</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4152</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	3.5100e-003	0.0730	0.1084	1.5000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	12.9415	12.9415	4.1000e-003	0.0000	13.0440
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>3.5100e-003</b>	<b>0.0730</b>	<b>0.1084</b>	<b>1.5000e-004</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>	<b>0.0000</b>	<b>12.9415</b>	<b>12.9415</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0440</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	6.2000e-004	4.8000e-004	5.4100e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4142	1.4142	4.0000e-005	0.0000	1.4152
<b>Total</b>	<b>6.2000e-004</b>	<b>4.8000e-004</b>	<b>5.4100e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>1.0000e-005</b>	<b>1.5800e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4142</b>	<b>1.4142</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4152</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive 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					
Regulatory Compliance	0.3040	1.5536	3.8639	0.0137	1.1199	0.0116	1.1315	0.3002	0.0108	0.3110	0.0000	1,267.9015	1,267.9015	0.0668	0.0000	1,269.5707
Baseline	0.3354	1.7663	4.6286	0.0169	1.3970	0.0141	1.4111	0.3745	0.0132	0.3876	0.0000	1,560.8967	1,560.8967	0.0803	0.0000	1,562.9030

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	1,077.12	1,077.12	3,680,683	2,950,681
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>1,077.12</b>	<b>1,077.12</b>	<b>1,077.12</b>	<b>3,680,683</b>	<b>2,950,681</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

#### 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 Regulatory						0.0000	0.0000		0.0000	0.0000	0.0000	686.0235	686.0235	0.0178	3.6900e-003	687.5692
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	686.0235	686.0235	0.0178	3.6900e-003	687.5692
NaturalGas Regulatory	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	97.3865	97.3865	1.8700e-003	1.7900e-003	97.9652
NaturalGas Baseline	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	97.3865	97.3865	1.8700e-003	1.7900e-003	97.9652

#### 5.2 Energy by Land Use - NaturalGas

##### Baseline

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.82495e+006	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	97.3865	97.3865	1.8700e-003	1.7900e-003	97.9652
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.8400e-003</b>	<b>0.0841</b>	<b>0.0358</b>	<b>5.4000e-004</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>97.3865</b>	<b>97.3865</b>	<b>1.8700e-003</b>	<b>1.7900e-003</b>	<b>97.9652</b>

**Regulatory Compliance**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.82495e+006	9.8400e-003	0.0841	0.0358	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	97.3865	97.3865	1.8700e-003	1.7900e-003	97.9652
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.8400e-003</b>	<b>0.0841</b>	<b>0.0358</b>	<b>5.4000e-004</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>97.3865</b>	<b>97.3865</b>	<b>1.8700e-003</b>	<b>1.7900e-003</b>	<b>97.9652</b>

**5.3 Energy by Land Use - Electricity**

**Baseline**

Electricity Use	Total CO2	CH4	N2O	CO2e
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Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	784096	396.6782	0.0103	2.1300e-003	397.5719
Enclosed Parking with Elevator	571936	289.3454	7.5200e-003	1.5600e-003	289.9973
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>686.0235</b>	<b>0.0178</b>	<b>3.6900e-003</b>	<b>687.5692</b>

### Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	784096	396.6782	0.0103	2.1300e-003	397.5719
Enclosed Parking with Elevator	571936	289.3454	7.5200e-003	1.5600e-003	289.9973
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>686.0235</b>	<b>0.0178</b>	<b>3.6900e-003</b>	<b>687.5692</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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					
Regulatory Compliance	0.7671	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242
Baseline	0.7671	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242

## 6.2 Area by SubCategory

### Baseline

	ROG	NOx	CO	SO2	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	0.0572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6477					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0621	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242
<b>Total</b>	<b>0.7671</b>	<b>0.0236</b>	<b>2.0481</b>	<b>1.1000e-004</b>		<b>0.0113</b>	<b>0.0113</b>		<b>0.0113</b>	<b>0.0113</b>	<b>0.0000</b>	<b>3.3432</b>	<b>3.3432</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>3.4242</b>

### Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.0572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6477					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0621	0.0236	2.0481	1.1000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	3.3432	3.3432	3.2400e-003	0.0000	3.4242
<b>Total</b>	<b>0.7671</b>	<b>0.0236</b>	<b>2.0481</b>	<b>1.1000e-004</b>		<b>0.0113</b>	<b>0.0113</b>		<b>0.0113</b>	<b>0.0113</b>	<b>0.0000</b>	<b>3.3432</b>	<b>3.3432</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>3.4242</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	114.1822	0.3392	8.5400e-003	125.2056
Baseline	134.7853	0.4238	0.0106	148.5467



## 7.2 Water by Land Use

### Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.9005 / 8.13292	134.7853	0.4238	0.0106	148.5467
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>134.7853</b>	<b>0.4238</b>	<b>0.0106</b>	<b>148.5467</b>

### Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	10.3204 / 7.63681	114.1822	0.3392	8.5400e-003	125.2056
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>114.1822</b>	<b>0.3392</b>	<b>8.5400e-003</b>	<b>125.2056</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	18.4884	1.0926	0.0000	45.8043
Baseline	18.4884	1.0926	0.0000	45.8043

**8.2 Waste by Land Use**

**Baseline**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	91.08	18.4884	1.0926	0.0000	45.8043
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.4884</b>	<b>1.0926</b>	<b>0.0000</b>	<b>45.8043</b>

**Regulatory Compliance**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
Apartments Mid Rise	91.08	18.4884	1.0926	0.0000	45.8043
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.4884</b>	<b>1.0926</b>	<b>0.0000</b>	<b>45.8043</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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GUSD Apartment Site Project - Los Angeles-South Coast County, Summer

**GUSD Apartment Site Project**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	0.40	97,600.00	0
Other Non-Asphalt Surfaces	69.17	1000sqft	0.00	41,288.00	0
Apartments Mid Rise	198.00	Dwelling Unit	1.40	176,769.00	566

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2022
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1115.33	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Other non-asphalt uses include common open space and landscape areas

Construction Phase - Construction duration approximately 22 months

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Scholl Canyon Landfill = 13.2 miles round trip

Demolition -

Grading - Export of approximately 19,004 cy of soil

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, SCAQMD recommends Tier 3

Compliant with SCAQMD Rule 403 - Fugitive Dust

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	463.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	168.30	0.00
tblFireplaces	NumberNoFireplace	19.80	0.00
tblFireplaces	NumberWood	9.90	0.00
tblGrading	AcresOfGrading	22.50	1.80
tblGrading	MaterialExported	0.00	19,004.00
tblLandUse	LandUseSquareFeet	69,170.00	41,288.00

tblLandUse	LandUseSquareFeet	198,000.00	176,769.00
tblLandUse	LotAcreage	2.20	0.40
tblLandUse	LotAcreage	1.59	0.00
tblLandUse	LotAcreage	5.21	1.40
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	9.90	0.00
tblWoodstoves	NumberNoncatalytic	9.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Baseline 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	2.4103	25.4111	15.8701	0.0374	5.8890	1.2932	6.7721	2.9774	1.2083	3.7899	0.0000	3,907.9144	3,907.9144	0.6399	0.0000	3,923.5321
2020	3.1120	23.9218	23.2151	0.0572	5.4541	0.8368	6.1638	2.7200	0.8072	3.3738	0.0000	5,584.0550	5,584.0550	0.6191	0.0000	5,597.0651
2021	30.0440	27.9254	34.9211	0.0789	3.1208	1.2254	4.3462	0.8341	1.1673	2.0014	0.0000	7,681.4847	7,681.4847	0.9442	0.0000	7,705.0891
<b>Maximum</b>	<b>30.0440</b>	<b>27.9254</b>	<b>34.9211</b>	<b>0.0789</b>	<b>5.8890</b>	<b>1.2932</b>	<b>6.7721</b>	<b>2.9774</b>	<b>1.2083</b>	<b>3.7899</b>	<b>0.0000</b>	<b>7,681.4847</b>	<b>7,681.4847</b>	<b>0.9442</b>	<b>0.0000</b>	<b>7,705.0891</b>



**Regulatory Compliance 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	0.6774	16.2779	16.3911	0.0374	2.7039	0.7250	3.0455	1.2114	0.7247	1.5517	0.0000	3,907.9144	3,907.9144	0.6399	0.0000	3,923.5321
2020	1.7222	17.4151	23.5056	0.0572	2.6578	0.7723	3.3007	1.2001	0.7699	1.5349	0.0000	5,584.0550	5,584.0550	0.6191	0.0000	5,597.0651
2021	28.2584	25.0938	36.5094	0.0789	3.1208	1.2446	4.3655	0.8341	1.2424	2.0765	0.0000	7,681.4847	7,681.4847	0.9442	0.0000	7,705.0891
<b>Maximum</b>	<b>28.2584</b>	<b>25.0938</b>	<b>36.5094</b>	<b>0.0789</b>	<b>3.1208</b>	<b>1.2446</b>	<b>4.3655</b>	<b>1.2114</b>	<b>1.2424</b>	<b>2.0765</b>	<b>0.0000</b>	<b>7,681.4847</b>	<b>7,681.4847</b>	<b>0.9442</b>	<b>0.0000</b>	<b>7,705.0891</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>13.80</b>	<b>23.91</b>	<b>-3.24</b>	<b>0.00</b>	<b>41.35</b>	<b>18.28</b>	<b>38.02</b>	<b>50.31</b>	<b>14.01</b>	<b>43.67</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**

**Baseline 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	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Energy	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Mobile	1.9423	9.2991	26.4527	0.0962	7.8268	0.0776	7.9043	2.0946	0.0724	2.1669		9,794.4446	9,794.4446	0.4897		9,806.6860
<b>Total</b>	<b>6.3560</b>	<b>9.9487</b>	<b>43.0336</b>	<b>0.1000</b>	<b>7.8268</b>	<b>0.2053</b>	<b>8.0321</b>	<b>2.0946</b>	<b>0.2001</b>	<b>2.2947</b>	<b>0.0000</b>	<b>10,412.1470</b>	<b>10,412.1470</b>	<b>0.5295</b>	<b>0.0108</b>	<b>10,428.5979</b>

**Regulatory Compliance 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	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Energy	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Mobile	1.7667	8.2176	21.9362	0.0782	6.2745	0.0634	6.3379	1.6792	0.0591	1.7383		7,956.5561	7,956.5561	0.4063		7,966.7138
<b>Total</b>	<b>6.1803</b>	<b>8.8673</b>	<b>38.5171</b>	<b>0.0820</b>	<b>6.2745</b>	<b>0.1911</b>	<b>6.4656</b>	<b>1.6792</b>	<b>0.1869</b>	<b>1.8660</b>	<b>0.0000</b>	<b>8,574.2585</b>	<b>8,574.2585</b>	<b>0.4461</b>	<b>0.0108</b>	<b>8,588.6256</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	2.76	10.87	10.50	18.07	19.83	6.89	19.50	19.83	6.60	18.68	0.00	17.65	17.65	15.74	0.00	17.64

**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	10/22/2019	11/18/2019	5	20	
2	Site Preparation	Site Preparation	11/19/2019	11/20/2019	5	2	
3	Grading	Grading	11/21/2019	2/12/2020	5	60	
4	Building Construction	Building Construction	2/13/2020	11/22/2021	5	463	
5	Architectural Coating	Architectural Coating	9/22/2021	11/22/2021	5	44	
6	Paving	Paving	10/22/2021	11/22/2021	5	22	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.8**

**Acres of Paving: 0.4**

Residential Indoor: 357,957; Residential Outdoor: 119,319; 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	147.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,376.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT

Building Construction	7	201.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5864	0.0000	1.5864	0.2402	0.0000	0.2402			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.5864</b>	<b>1.2863</b>	<b>2.8727</b>	<b>0.2402</b>	<b>1.2017</b>	<b>1.4419</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0503	1.7347	0.3489	4.1400e-003	0.0849	5.6100e-003	0.0905	0.0233	5.3700e-003	0.0286		448.1435	448.1435	0.0333		448.9767
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	0.0649	0.0477	0.6268	1.5800e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		157.6839	157.6839	5.4200e-003		157.8193
<b>Total</b>	<b>0.1153</b>	<b>1.7824</b>	<b>0.9757</b>	<b>5.7200e-003</b>	<b>0.2302</b>	<b>6.8600e-003</b>	<b>0.2370</b>	<b>0.0618</b>	<b>6.5200e-003</b>	<b>0.0683</b>		<b>605.8273</b>	<b>605.8273</b>	<b>0.0388</b>		<b>606.7960</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.6187	0.0000	0.6187	0.0937	0.0000	0.0937			0.0000				0.0000
Off-Road	0.5621	12.1033	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,360.7197	2,360.7197	0.6011			2,375.7475
<b>Total</b>	<b>0.5621</b>	<b>12.1033</b>	<b>15.4154</b>	<b>0.0241</b>	<b>0.6187</b>	<b>0.7182</b>	<b>1.3369</b>	<b>0.0937</b>	<b>0.7182</b>	<b>0.8119</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>			<b>2,375.7475</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0503	1.7347	0.3489	4.1400e-003	0.0849	5.6100e-003	0.0905	0.0233	5.3700e-003	0.0286		448.1435	448.1435	0.0333		448.9767
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	0.0649	0.0477	0.6268	1.5800e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		157.6839	157.6839	5.4200e-003		157.8193
<b>Total</b>	<b>0.1153</b>	<b>1.7824</b>	<b>0.9757</b>	<b>5.7200e-003</b>	<b>0.2302</b>	<b>6.8600e-003</b>	<b>0.2370</b>	<b>0.0618</b>	<b>6.5200e-003</b>	<b>0.0683</b>		<b>605.8273</b>	<b>605.8273</b>	<b>0.0388</b>		<b>606.7960</b>

**3.3 Site Preparation - 2019**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		97.0362	97.0362	3.3300e-003		97.1196
<b>Total</b>	<b>0.0400</b>	<b>0.0294</b>	<b>0.3857</b>	<b>9.7000e-004</b>	<b>0.0894</b>	<b>7.7000e-004</b>	<b>0.0902</b>	<b>0.0237</b>	<b>7.1000e-004</b>	<b>0.0244</b>		<b>97.0362</b>	<b>97.0362</b>	<b>3.3300e-003</b>		<b>97.1196</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>0.4212</b>	<b>8.4089</b>	<b>9.8221</b>	<b>0.0172</b>	<b>2.2618</b>	<b>0.3747</b>	<b>2.6365</b>	<b>1.1519</b>	<b>0.3747</b>	<b>1.5267</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		97.0362	97.0362	3.3300e-003		97.1196
<b>Total</b>	<b>0.0400</b>	<b>0.0294</b>	<b>0.3857</b>	<b>9.7000e-004</b>	<b>0.0894</b>	<b>7.7000e-004</b>	<b>0.0902</b>	<b>0.0237</b>	<b>7.1000e-004</b>	<b>0.0244</b>		<b>97.0362</b>	<b>97.0362</b>	<b>3.3300e-003</b>		<b>97.1196</b>

**3.4 Grading - 2019**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5842	0.0000	4.5842	2.4915	0.0000	2.4915			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.5842</b>	<b>0.7365</b>	<b>5.3207</b>	<b>2.4915</b>	<b>0.6775</b>	<b>3.1691</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2711	9.3460	1.8798	0.0223	0.8266	0.0302	0.8569	0.2160	0.0289	0.2450		2,414.4873	2,414.4873	0.1796		2,418.9766
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	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		97.0362	97.0362	3.3300e-003		97.1196
<b>Total</b>	<b>0.3110</b>	<b>9.3754</b>	<b>2.2655</b>	<b>0.0233</b>	<b>0.9160</b>	<b>0.0310</b>	<b>0.9470</b>	<b>0.2397</b>	<b>0.0296</b>	<b>0.2694</b>		<b>2,511.5235</b>	<b>2,511.5235</b>	<b>0.1829</b>		<b>2,516.0962</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7878	0.0000	1.7878	0.9717	0.0000	0.9717			0.0000			0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>0.3450</b>	<b>6.9025</b>	<b>8.0841</b>	<b>0.0141</b>	<b>1.7878</b>	<b>0.3106</b>	<b>2.0984</b>	<b>0.9717</b>	<b>0.3106</b>	<b>1.2823</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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	lb/day										lb/day			
Hauling	0.2711	9.3460	1.8798	0.0223	0.8266	0.0302	0.8569	0.2160	0.0289	0.2450	2,414.4873	2,414.4873	0.1796	2,418.9766
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	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244	97.0362	97.0362	3.3300e-003	97.1196
<b>Total</b>	<b>0.3110</b>	<b>9.3754</b>	<b>2.2655</b>	<b>0.0233</b>	<b>0.9160</b>	<b>0.0310</b>	<b>0.9470</b>	<b>0.2397</b>	<b>0.0296</b>	<b>0.2694</b>	<b>2,511.5235</b>	<b>2,511.5235</b>	<b>0.1829</b>	<b>2,516.0962</b>

### 3.4 Grading - 2020

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5842	0.0000	4.5842	2.4915	0.0000	2.4915			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	1,365.7183	1,365.7183	0.4417			1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.5842</b>	<b>0.6844</b>	<b>5.2686</b>	<b>2.4915</b>	<b>0.6296</b>	<b>3.1212</b>	<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>			<b>1,376.7609</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2510	8.8102	1.8269	0.0221	0.7805	0.0246	0.8051	0.2047	0.0235	0.2282	2,392.0419	2,392.0419	0.1744			2,396.4014
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	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244	94.0890	94.0890	2.9700e-003			94.1632

<b>Total</b>	<b>0.2879</b>	<b>8.8364</b>	<b>2.1772</b>	<b>0.0230</b>	<b>0.8699</b>	<b>0.0253</b>	<b>0.8952</b>	<b>0.2284</b>	<b>0.0242</b>	<b>0.2526</b>		<b>2,486.1309</b>	<b>2,486.1309</b>	<b>0.1774</b>		<b>2,490.5646</b>
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**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					1.7878	0.0000	1.7878	0.9717	0.0000	0.9717			0.0000			0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>0.3450</b>	<b>6.9025</b>	<b>8.0841</b>	<b>0.0141</b>	<b>1.7878</b>	<b>0.3106</b>	<b>2.0984</b>	<b>0.9717</b>	<b>0.3106</b>	<b>1.2823</b>	<b>0.0000</b>	<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Hauling	0.2510	8.8102	1.8269	0.0221	0.7805	0.0246	0.8051	0.2047	0.0235	0.2282		2,392.0419	2,392.0419	0.1744		2,396.4014
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	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
<b>Total</b>	<b>0.2879</b>	<b>8.8364</b>	<b>2.1772</b>	<b>0.0230</b>	<b>0.8699</b>	<b>0.0253</b>	<b>0.8952</b>	<b>0.2284</b>	<b>0.0242</b>	<b>0.2526</b>		<b>2,486.1309</b>	<b>2,486.1309</b>	<b>0.1774</b>		<b>2,490.5646</b>

**3.5 Building Construction - 2020**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1565	4.6804	1.2263	0.0114	0.2817	0.0220	0.3037	0.0811	0.0211	0.1022		1,218.9087	1,218.9087	0.0744		1,220.782
Worker	0.9250	0.6581	8.8007	0.0237	2.2467	0.0188	2.2655	0.5958	0.0173	0.6131		2,363.9869	2,363.9869	0.0745		2,365.8502
<b>Total</b>	<b>1.0815</b>	<b>5.3384</b>	<b>10.0270</b>	<b>0.0352</b>	<b>2.5284</b>	<b>0.0408</b>	<b>2.5692</b>	<b>0.6769</b>	<b>0.0384</b>	<b>0.7153</b>		<b>3,582.8955</b>	<b>3,582.8955</b>	<b>0.1489</b>		<b>3,586.6184</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6407	12.0767	13.4786	0.0220		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0220</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1565	4.6804	1.2263	0.0114	0.2817	0.0220	0.3037	0.0811	0.0211	0.1022		1,218.9087	1,218.9087	0.0744		1,220.7682
Worker	0.9250	0.6581	8.8007	0.0237	2.2467	0.0188	2.2655	0.5958	0.0173	0.6131		2,363.9869	2,363.9869	0.0745		2,365.8502
<b>Total</b>	<b>1.0815</b>	<b>5.3384</b>	<b>10.0270</b>	<b>0.0352</b>	<b>2.5284</b>	<b>0.0408</b>	<b>2.5692</b>	<b>0.6769</b>	<b>0.0384</b>	<b>0.7153</b>		<b>3,582.8955</b>	<b>3,582.8955</b>	<b>0.1489</b>		<b>3,586.6184</b>

**3.5 Building Construction - 2021**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1337	4.2719	1.1168	0.0113	0.2817	8.7400e-003	0.2904	0.0811	8.3500e-003	0.0895		1,209.4748	1,209.4748	0.0713			1,211.2561
Worker	0.8616	0.5922	8.0958	0.0230	2.2467	0.0182	2.2649	0.5958	0.0167	0.6126		2,288.9274	2,288.9274	0.0674			2,290.6135
<b>Total</b>	<b>0.9953</b>	<b>4.8642</b>	<b>9.2126</b>	<b>0.0343</b>	<b>2.5284</b>	<b>0.0269</b>	<b>2.5553</b>	<b>0.6769</b>	<b>0.0251</b>	<b>0.7020</b>		<b>3,498.4022</b>	<b>3,498.4022</b>	<b>0.1387</b>			<b>3,501.8696</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6407	12.0767	13.4786	0.0221		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.2200	2,001.2200	0.3573			2,010.1517
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>			<b>2,010.1517</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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	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
Vendor	0.1337	4.2719	1.1168	0.0113	0.2817	8.7400e-003	0.2904	0.0811	8.3500e-003	0.0895		1,209.4748	1,209.4748	0.0713		1,211.2561
Worker	0.8616	0.5922	8.0958	0.0230	2.2467	0.0182	2.2649	0.5958	0.0167	0.6126		2,288.9274	2,288.9274	0.0674		2,290.6135
<b>Total</b>	<b>0.9953</b>	<b>4.8642</b>	<b>9.2126</b>	<b>0.0343</b>	<b>2.5284</b>	<b>0.0269</b>	<b>2.5553</b>	<b>0.6769</b>	<b>0.0251</b>	<b>0.7020</b>		<b>3,498.4022</b>	<b>3,498.4022</b>	<b>0.1387</b>		<b>3,501.8696</b>

### 3.6 Architectural Coating - 2021

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.0162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>26.2351</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1715	0.1179	1.6111	4.5700e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		455.5079	455.5079	0.0134		455.8435

<b>Total</b>	<b>0.1715</b>	<b>0.1179</b>	<b>1.6111</b>	<b>4.5700e-003</b>	<b>0.4471</b>	<b>3.6100e-003</b>	<b>0.4507</b>	<b>0.1186</b>	<b>3.3300e-003</b>	<b>0.1219</b>		<b>455.5079</b>	<b>455.5079</b>	<b>0.0134</b>		<b>455.8435</b>
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**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Archit. Coating	26.0162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>26.0756</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.1715	0.1179	1.6111	4.5700e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		455.5079	455.5079	0.0134		455.8435
<b>Total</b>	<b>0.1715</b>	<b>0.1179</b>	<b>1.6111</b>	<b>4.5700e-003</b>	<b>0.4471</b>	<b>3.6100e-003</b>	<b>0.4507</b>	<b>0.1186</b>	<b>3.3300e-003</b>	<b>0.1219</b>		<b>455.5079</b>	<b>455.5079</b>	<b>0.0134</b>		<b>455.8435</b>

**3.7 Paving - 2021**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
<b>Total</b>	<b>0.0557</b>	<b>0.0383</b>	<b>0.5236</b>	<b>1.4900e-003</b>	<b>0.1453</b>	<b>1.1700e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0800e-003</b>	<b>0.0396</b>		<b>148.0401</b>	<b>148.0401</b>	<b>4.3600e-003</b>		<b>148.1491</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.3864</b>	<b>0.3864</b>		<b>0.3864</b>	<b>0.3864</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
<b>Total</b>	<b>0.0557</b>	<b>0.0383</b>	<b>0.5236</b>	<b>1.4900e-003</b>	<b>0.1453</b>	<b>1.1700e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0800e-003</b>	<b>0.0396</b>		<b>148.0401</b>	<b>148.0401</b>	<b>4.3600e-003</b>		<b>148.1491</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Improve Destination Accessibility

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

Regulatory Compliance	1.7667	8.2176	21.9362	0.0782	6.2745	0.0634	6.3379	1.6792	0.0591	1.7383		7,956.5561	7,956.5561	0.4063		7,966.7138
Baseline	1.9423	9.2991	26.4527	0.0962	7.8268	0.0776	7.9043	2.0946	0.0724	2.1669		9,794.4446	9,794.4446	0.4897		9,806.6860

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	1,077.12	1,077.12	3,680,683	2,950,681
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,077.12	1,077.12	1,077.12	3,680,683	2,950,681

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

#### 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 Regulatory Compliance	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
NaturalGas Baseline	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160

## 5.2 Energy by Land Use - NaturalGas

### Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4999.87	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0539</b>	<b>0.4608</b>	<b>0.1961</b>	<b>2.9400e-003</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>		<b>588.2205</b>	<b>588.2205</b>	<b>0.0113</b>	<b>0.0108</b>	<b>591.7160</b>

### Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					

Apartments Mid Rise	4.99987	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0539</b>	<b>0.4608</b>	<b>0.1961</b>	<b>2.9400e-003</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>		<b>588.2205</b>	<b>588.2205</b>	<b>0.0113</b>	<b>0.0108</b>	<b>591.7160</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Baseline	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958

### 6.2 Area by SubCategory

#### Baseline

	ROG	NOx	CO	SO2	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	0.3136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4969	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905		29.4819	29.4819	0.0286		30.1958
<b>Total</b>	<b>4.3597</b>	<b>0.1889</b>	<b>16.3849</b>	<b>8.6000e-004</b>		<b>0.0905</b>	<b>0.0905</b>		<b>0.0905</b>	<b>0.0905</b>	<b>0.0000</b>	<b>29.4819</b>	<b>29.4819</b>	<b>0.0286</b>	<b>0.0000</b>	<b>30.1958</b>

### Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.3136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4969	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905		29.4819	29.4819	0.0286		30.1958
<b>Total</b>	<b>4.3597</b>	<b>0.1889</b>	<b>16.3849</b>	<b>8.6000e-004</b>		<b>0.0905</b>	<b>0.0905</b>		<b>0.0905</b>	<b>0.0905</b>	<b>0.0000</b>	<b>29.4819</b>	<b>29.4819</b>	<b>0.0286</b>	<b>0.0000</b>	<b>30.1958</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

## 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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GUSD Apartment Site Project - Los Angeles-South Coast County, Winter

**GUSD Apartment Site Project**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	244.00	Space	0.40	97,600.00	0
Other Non-Asphalt Surfaces	69.17	1000sqft	0.00	41,288.00	0
Apartments Mid Rise	198.00	Dwelling Unit	1.40	176,769.00	566

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>		2022	
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Other non-asphalt uses include common open space and landscape areas

Construction Phase - Construction duration approximately 22 months

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -



Off-road Equipment -

Off-road Equipment -

Trips and VMT - Super 10 dump trucks will be utilized during demolition for 50 total trips

Super 10 dump trucks will be utilized during grading for 85 total trips

Scholl Canyon Landfill = 13.2 miles round trip

Demolition -

Grading - Export of approximately 19,004 cy of soil

Vehicle Trips - Based on traffic study trip generation rate

Woodstoves - No woodstoves, no fireplaces

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. For conservative analysis, SCAQMD recommends Tier 3

Compliant with SCAQMD Rule 403 - Fugitive Dust

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentRegulatory Compliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	463.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	168.30	0.00
tblFireplaces	NumberNoFireplace	19.80	0.00
tblFireplaces	NumberWood	9.90	0.00
tblGrading	AcresOfGrading	22.50	1.80
tblGrading	MaterialExported	0.00	19,004.00
tblLandUse	LandUseSquareFeet	69,170.00	41,288.00
tblLandUse	LandUseSquareFeet	198,000.00	176,769.00

tblLandUse	LotAcreage	2.20	0.40
tblLandUse	LotAcreage	1.59	0.00
tblLandUse	LotAcreage	5.21	1.40
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblTripsAndVMT	HaulingTripLength	20.00	13.20
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	WD_TR	6.65	5.44
tblWoodstoves	NumberCatalytic	9.90	0.00
tblWoodstoves	NumberNoncatalytic	9.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Baseline 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	2.4191	25.4674	15.8518	0.0368	5.8890	1.2933	6.7721	2.9774	1.2084	3.7899	0.0000	3,844.1868	3,844.1868	0.6412	0.0000	3,860.0253
2020	3.2213	23.9713	22.6009	0.0555	5.4541	0.8371	6.1644	2.7200	0.8075	3.3743	0.0000	5,412.6504	5,412.6504	0.6273	0.0000	5,425.6735
2021	30.1730	27.9966	34.1629	0.0769	3.1208	1.2257	4.3465	0.8341	1.1676	2.0017	0.0000	7,479.3726	7,479.3726	0.9438	0.0000	7,502.9670
<b>Maximum</b>	<b>30.1730</b>	<b>27.9966</b>	<b>34.1629</b>	<b>0.0769</b>	<b>5.8890</b>	<b>1.2933</b>	<b>6.7721</b>	<b>2.9774</b>	<b>1.2084</b>	<b>3.7899</b>	<b>0.0000</b>	<b>7,479.3726</b>	<b>7,479.3726</b>	<b>0.9438</b>	<b>0.0000</b>	<b>7,502.9670</b>

#### Regulatory Compliance 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	0.6862	16.3342	16.3729	0.0368	2.7039	0.7252	3.0463	1.2114	0.7249	1.5525	0.0000	3,844.1868	3,844.1868	0.6412	0.0000	3,860.0253
2020	1.8315	17.4847	22.8914	0.0555	2.6578	0.7727	3.3011	1.2001	0.7702	1.5354	0.0000	5,412.6504	5,412.6504	0.6273	0.0000	5,425.6735
2021	28.3874	25.1650	35.7512	0.0769	3.1208	1.2449	4.3657	0.8341	1.2427	2.0768	0.0000	7,479.3726	7,479.3726	0.9438	0.0000	7,502.9670
<b>Maximum</b>	<b>28.3874</b>	<b>25.1650</b>	<b>35.7512</b>	<b>0.0769</b>	<b>3.1208</b>	<b>1.2449</b>	<b>4.3657</b>	<b>1.2114</b>	<b>1.2427</b>	<b>2.0768</b>	<b>0.0000</b>	<b>7,479.3726</b>	<b>7,479.3726</b>	<b>0.9438</b>	<b>0.0000</b>	<b>7,502.9670</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>13.71</b>	<b>23.83</b>	<b>-3.30</b>	<b>0.00</b>	<b>41.35</b>	<b>18.28</b>	<b>38.01</b>	<b>50.31</b>	<b>14.00</b>	<b>43.65</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

### Baseline 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	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Energy	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Mobile	1.8851	9.5275	25.0622	0.0916	7.8268	0.0779	7.9047	2.0946	0.0727	2.1673		9,323.2891	9,323.2891	0.4880		9,335.4881
<b>Total</b>	<b>6.2988</b>	<b>10.1772</b>	<b>41.6432</b>	<b>0.0954</b>	<b>7.8268</b>	<b>0.2057</b>	<b>8.0324</b>	<b>2.0946</b>	<b>0.2004</b>	<b>2.2950</b>	<b>0.0000</b>	<b>9,940.9915</b>	<b>9,940.9915</b>	<b>0.5278</b>	<b>0.0108</b>	<b>9,957.4000</b>

### Regulatory Compliance 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	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Energy	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Mobile	1.7139	8.3828	20.9714	0.0743	6.2745	0.0638	6.3383	1.6792	0.0595	1.7387		7,569.0336	7,569.0336	0.4068		7,579.2024
<b>Total</b>	<b>6.1275</b>	<b>9.0325</b>	<b>37.5523</b>	<b>0.0781</b>	<b>6.2745</b>	<b>0.1915</b>	<b>6.4660</b>	<b>1.6792</b>	<b>0.1872</b>	<b>1.8664</b>	<b>0.0000</b>	<b>8,186.7360</b>	<b>8,186.7360</b>	<b>0.4466</b>	<b>0.0108</b>	<b>8,201.1143</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	2.72	11.25	9.82	18.09	19.83	6.88	19.50	19.83	6.59	18.68	0.00	17.65	17.65	15.39	0.00	17.64

### 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	10/22/2019	11/18/2019	5	20	
2	Site Preparation	Site Preparation	11/19/2019	11/20/2019	5	2	
3	Grading	Grading	11/21/2019	2/12/2020	5	60	
4	Building Construction	Building Construction	2/13/2020	11/22/2021	5	463	
5	Architectural Coating	Architectural Coating	9/22/2021	11/22/2021	5	44	
6	Paving	Paving	10/22/2021	11/22/2021	5	22	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.8

Acres of Paving: 0.4

Residential Indoor: 357,957; Residential Outdoor: 119,319; 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	147.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,376.00	14.70	6.90	13.20	LD_Mix	HDT_Mix	HHDT
Building Construction	7	201.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5864	0.0000	1.5864	0.2402	0.0000	0.2402			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.5864</b>	<b>1.2863</b>	<b>2.8727</b>	<b>0.2402</b>	<b>1.2017</b>	<b>1.4419</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0521	1.7445	0.3823	4.0400e-003	0.0849	5.7700e-003	0.0906	0.0233	5.5200e-003	0.0288		437.3669	437.3669	0.0350		438.2420
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	0.0720	0.0529	0.5752	1.4900e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		148.4770	148.4770	5.1100e-003		148.6047
<b>Total</b>	<b>0.1240</b>	<b>1.7974</b>	<b>0.9575</b>	<b>5.5300e-003</b>	<b>0.2302</b>	<b>7.0200e-003</b>	<b>0.2372</b>	<b>0.0618</b>	<b>6.6700e-003</b>	<b>0.0685</b>		<b>585.8439</b>	<b>585.8439</b>	<b>0.0401</b>		<b>586.8467</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6187	0.0000	0.6187	0.0937	0.0000	0.0937			0.0000			0.0000
Off-Road	0.5621	12.1033	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>0.5621</b>	<b>12.1033</b>	<b>15.4154</b>	<b>0.0241</b>	<b>0.6187</b>	<b>0.7182</b>	<b>1.3369</b>	<b>0.0937</b>	<b>0.7182</b>	<b>0.8119</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0521	1.7445	0.3823	4.0400e-003	0.0849	5.7700e-003	0.0906	0.0233	5.5200e-003	0.0288		437.3669	437.3669	0.0350		438.2420
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	0.0720	0.0529	0.5752	1.4900e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		148.4770	148.4770	5.1100e-003		148.6047
<b>Total</b>	<b>0.1240</b>	<b>1.7974</b>	<b>0.9575</b>	<b>5.5300e-003</b>	<b>0.2302</b>	<b>7.0200e-003</b>	<b>0.2372</b>	<b>0.0618</b>	<b>6.6700e-003</b>	<b>0.0685</b>		<b>585.8439</b>	<b>585.8439</b>	<b>0.0401</b>		<b>586.8467</b>

**3.3 Site Preparation - 2019**

**Baseline Construction On-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		91.3705	91.3705	3.1400e-003		91.4491
<b>Total</b>	<b>0.0443</b>	<b>0.0325</b>	<b>0.3540</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>7.7000e-004</b>	<b>0.0902</b>	<b>0.0237</b>	<b>7.1000e-004</b>	<b>0.0244</b>		<b>91.3705</b>	<b>91.3705</b>	<b>3.1400e-003</b>		<b>91.4491</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>0.4212</b>	<b>8.4089</b>	<b>9.8221</b>	<b>0.0172</b>	<b>2.2618</b>	<b>0.3747</b>	<b>2.6365</b>	<b>1.1519</b>	<b>0.3747</b>	<b>1.5267</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		91.3705	91.3705	3.1400e-003		91.4491
<b>Total</b>	<b>0.0443</b>	<b>0.0325</b>	<b>0.3540</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>7.7000e-004</b>	<b>0.0902</b>	<b>0.0237</b>	<b>7.1000e-004</b>	<b>0.0244</b>		<b>91.3705</b>	<b>91.3705</b>	<b>3.1400e-003</b>		<b>91.4491</b>

**3.4 Grading - 2019**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5842	0.0000	4.5842	2.4915	0.0000	2.4915			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.5842</b>	<b>0.7365</b>	<b>5.3207</b>	<b>2.4915</b>	<b>0.6775</b>	<b>3.1691</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2804	9.3992	2.0595	0.0218	0.8266	0.0311	0.8577	0.2160	0.0297	0.2458		2,356.4255	2,356.4255	0.1886		2,361.1403
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	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		91.3705	91.3705	3.1400e-003		91.4491
<b>Total</b>	<b>0.3247</b>	<b>9.4317</b>	<b>2.4135</b>	<b>0.0227</b>	<b>0.9160</b>	<b>0.0318</b>	<b>0.9479</b>	<b>0.2397</b>	<b>0.0304</b>	<b>0.2702</b>		<b>2,447.7960</b>	<b>2,447.7960</b>	<b>0.1917</b>		<b>2,452.5893</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7878	0.0000	1.7878	0.9717	0.0000	0.9717			0.0000			0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>0.3450</b>	<b>6.9025</b>	<b>8.0841</b>	<b>0.0141</b>	<b>1.7878</b>	<b>0.3106</b>	<b>2.0984</b>	<b>0.9717</b>	<b>0.3106</b>	<b>1.2823</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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	lb/day										lb/day			
Hauling	0.2804	9.3992	2.0595	0.0218	0.8266	0.0311	0.8577	0.2160	0.0297	0.2458	2,356.4255	2,356.4255	0.1886	2,361.1403
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	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244	91.3705	91.3705	3.1400e-003	91.4491
<b>Total</b>	<b>0.3247</b>	<b>9.4317</b>	<b>2.4135</b>	<b>0.0227</b>	<b>0.9160</b>	<b>0.0318</b>	<b>0.9479</b>	<b>0.2397</b>	<b>0.0304</b>	<b>0.2702</b>	<b>2,447.7960</b>	<b>2,447.7960</b>	<b>0.1917</b>	<b>2,452.5893</b>

### 3.4 Grading - 2020

#### Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5842	0.0000	4.5842	2.4915	0.0000	2.4915			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.5842</b>	<b>0.6844</b>	<b>5.2686</b>	<b>2.4915</b>	<b>0.6296</b>	<b>3.1212</b>		<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

#### Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2595	8.8569	1.9902	0.0215	0.7805	0.0251	0.8056	0.2047	0.0240	0.2287		2,333.6804	2,333.6804	0.1828		2,338.2503
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	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634

<b>Total</b>	<b>0.3004</b>	<b>8.8859</b>	<b>2.3111</b>	<b>0.0224</b>	<b>0.8699</b>	<b>0.0259</b>	<b>0.8958</b>	<b>0.2284</b>	<b>0.0247</b>	<b>0.2531</b>		<b>2,422.2740</b>	<b>2,422.2740</b>	<b>0.1856</b>		<b>2,426.9138</b>
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**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					1.7878	0.0000	1.7878	0.9717	0.0000	0.9717			0.0000			0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>0.3450</b>	<b>6.9025</b>	<b>8.0841</b>	<b>0.0141</b>	<b>1.7878</b>	<b>0.3106</b>	<b>2.0984</b>	<b>0.9717</b>	<b>0.3106</b>	<b>1.2823</b>	<b>0.0000</b>	<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Hauling	0.2595	8.8569	1.9902	0.0215	0.7805	0.0251	0.8056	0.2047	0.0240	0.2287		2,333.6804	2,333.6804	0.1828		2,338.2503
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	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
<b>Total</b>	<b>0.3004</b>	<b>8.8859</b>	<b>2.3111</b>	<b>0.0224</b>	<b>0.8699</b>	<b>0.0259</b>	<b>0.8958</b>	<b>0.2284</b>	<b>0.0247</b>	<b>0.2531</b>		<b>2,422.2740</b>	<b>2,422.2740</b>	<b>0.1856</b>		<b>2,426.9138</b>

**3.5 Building Construction - 2020**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1636	4.6794	1.3525	0.0111	0.2817	0.0224	0.3041	0.0811	0.0214	0.1025		1,185.5759	1,185.5759	0.0793		1,187.5578
Worker	1.0272	0.7286	8.0603	0.0224	2.2467	0.0188	2.2655	0.5958	0.0173	0.6131		2,225.9150	2,225.9150	0.0702		2,227.6690
<b>Total</b>	<b>1.1908</b>	<b>5.4080</b>	<b>9.4128</b>	<b>0.0335</b>	<b>2.5284</b>	<b>0.0412</b>	<b>2.5696</b>	<b>0.6769</b>	<b>0.0387</b>	<b>0.7157</b>		<b>3,411.4909</b>	<b>3,411.4909</b>	<b>0.1494</b>		<b>3,415.2268</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6407	12.0767	13.4786	0.0220		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0220</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1636	4.6794	1.3525	0.0111	0.2817	0.0224	0.3041	0.0811	0.0214	0.1025		1,185.5759	1,185.5759	0.0793		1,187.5578
Worker	1.0272	0.7286	8.0603	0.0224	2.2467	0.0188	2.2655	0.5958	0.0173	0.6131		2,225.9150	2,225.9150	0.0702		2,227.6690
<b>Total</b>	<b>1.1908</b>	<b>5.4080</b>	<b>9.4128</b>	<b>0.0335</b>	<b>2.5284</b>	<b>0.0412</b>	<b>2.5696</b>	<b>0.6769</b>	<b>0.0387</b>	<b>0.7157</b>		<b>3,411.4909</b>	<b>3,411.4909</b>	<b>0.1494</b>		<b>3,415.2268</b>

**3.5 Building Construction - 2021**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1404	4.2631	1.2354	0.0110	0.2817	9.0200e-003	0.2907	0.0811	8.6200e-003	0.0897		1,176.3203	1,176.3203	0.0759			1,178.2188
Worker	0.9584	0.6556	7.4019	0.0216	2.2467	0.0182	2.2649	0.5958	0.0167	0.6126		2,155.2247	2,155.2247	0.0634			2,156.8102
<b>Total</b>	<b>1.0988</b>	<b>4.9187</b>	<b>8.6373</b>	<b>0.0326</b>	<b>2.5284</b>	<b>0.0272</b>	<b>2.5556</b>	<b>0.6769</b>	<b>0.0253</b>	<b>0.7023</b>		<b>3,331.5450</b>	<b>3,331.5450</b>	<b>0.1394</b>			<b>3,335.0290</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6407	12.0767	13.4786	0.0221		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.2200	2,001.2200	0.3573			2,010.1517
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>			<b>2,010.1517</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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	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
Vendor	0.1404	4.2631	1.2354	0.0110	0.2817	9.0200e-003	0.2907	0.0811	8.6200e-003	0.0897		1,176.3203	1,176.3203	0.0759	1,178.2188
Worker	0.9584	0.6556	7.4019	0.0216	2.2467	0.0182	2.2649	0.5958	0.0167	0.6126		2,155.2247	2,155.2247	0.0634	2,156.8102
<b>Total</b>	<b>1.0988</b>	<b>4.9187</b>	<b>8.6373</b>	<b>0.0326</b>	<b>2.5284</b>	<b>0.0272</b>	<b>2.5556</b>	<b>0.6769</b>	<b>0.0253</b>	<b>0.7023</b>		<b>3,331.5450</b>	<b>3,331.5450</b>	<b>0.1394</b>	<b>3,335.0290</b>

### 3.6 Architectural Coating - 2021

#### Baseline Construction On-Site

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
Archit. Coating	26.0162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>26.2351</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### Baseline Construction Off-Site

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
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	0.1907	0.1305	1.4730	4.3000e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		428.9004	428.9004	0.0126		429.2160

<b>Total</b>	<b>0.1907</b>	<b>0.1305</b>	<b>1.4730</b>	<b>4.3000e-003</b>	<b>0.4471</b>	<b>3.6100e-003</b>	<b>0.4507</b>	<b>0.1186</b>	<b>3.3300e-003</b>	<b>0.1219</b>		<b>428.9004</b>	<b>428.9004</b>	<b>0.0126</b>		<b>429.2160</b>
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**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Archit. Coating	26.0162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>26.0756</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	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>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.1907	0.1305	1.4730	4.3000e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		428.9004	428.9004	0.0126		429.2160
<b>Total</b>	<b>0.1907</b>	<b>0.1305</b>	<b>1.4730</b>	<b>4.3000e-003</b>	<b>0.4471</b>	<b>3.6100e-003</b>	<b>0.4507</b>	<b>0.1186</b>	<b>3.3300e-003</b>	<b>0.1219</b>		<b>428.9004</b>	<b>428.9004</b>	<b>0.0126</b>		<b>429.2160</b>

**3.7 Paving - 2021**

**Baseline Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Baseline Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
<b>Total</b>	<b>0.0620</b>	<b>0.0424</b>	<b>0.4787</b>	<b>1.4000e-003</b>	<b>0.1453</b>	<b>1.1700e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0800e-003</b>	<b>0.0396</b>		<b>139.3926</b>	<b>139.3926</b>	<b>4.1000e-003</b>		<b>139.4952</b>

**Regulatory Compliance Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.3864</b>	<b>0.3864</b>		<b>0.3864</b>	<b>0.3864</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Regulatory Compliance Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
<b>Total</b>	<b>0.0620</b>	<b>0.0424</b>	<b>0.4787</b>	<b>1.4000e-003</b>	<b>0.1453</b>	<b>1.1700e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0800e-003</b>	<b>0.0396</b>		<b>139.3926</b>	<b>139.3926</b>	<b>4.1000e-003</b>		<b>139.4952</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Improve Destination Accessibility

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

Regulatory Compliance	1.7139	8.3828	20.9714	0.0743	6.2745	0.0638	6.3383	1.6792	0.0595	1.7387		7,569.0336	7,569.0336	0.4068	7,579.2024
Baseline	1.8851	9.5275	25.0622	0.0916	7.8268	0.0779	7.9047	2.0946	0.0727	2.1673		9,323.2891	9,323.2891	0.4880	9,335.4881

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Baseline	Regulatory Compliance
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	1,077.12	1,077.12	3,680,683	2,950,681
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,077.12	1,077.12	1,077.12	3,680,683	2,950,681

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Enclosed Parking with Elevator	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Non-Asphalt Surfaces	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

#### 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 Regulatory Compliance	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
NaturalGas Baseline	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160

## 5.2 Energy by Land Use - NaturalGas

### Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4999.87	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0539</b>	<b>0.4608</b>	<b>0.1961</b>	<b>2.9400e-003</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>		<b>588.2205</b>	<b>588.2205</b>	<b>0.0113</b>	<b>0.0108</b>	<b>591.7160</b>

### Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					

Apartments Mid Rise	4.99987	0.0539	0.4608	0.1961	2.9400e-003		0.0373	0.0373		0.0373	0.0373		588.2205	588.2205	0.0113	0.0108	591.7160
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0539</b>	<b>0.4608</b>	<b>0.1961</b>	<b>2.9400e-003</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>		<b>588.2205</b>	<b>588.2205</b>	<b>0.0113</b>	<b>0.0108</b>	<b>591.7160</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958
Baseline	4.3597	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905	0.0000	29.4819	29.4819	0.0286	0.0000	30.1958

### 6.2 Area by SubCategory

#### Baseline

	ROG	NOx	CO	SO2	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	0.3136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4969	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905		29.4819	29.4819	0.0286		30.1958
<b>Total</b>	<b>4.3597</b>	<b>0.1889</b>	<b>16.3849</b>	<b>8.6000e-004</b>		<b>0.0905</b>	<b>0.0905</b>		<b>0.0905</b>	<b>0.0905</b>	<b>0.0000</b>	<b>29.4819</b>	<b>29.4819</b>	<b>0.0286</b>	<b>0.0000</b>	<b>30.1958</b>

### Regulatory Compliance

	ROG	NOx	CO	SO2	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	0.3136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4969	0.1889	16.3849	8.6000e-004		0.0905	0.0905		0.0905	0.0905		29.4819	29.4819	0.0286		30.1958
<b>Total</b>	<b>4.3597</b>	<b>0.1889</b>	<b>16.3849</b>	<b>8.6000e-004</b>		<b>0.0905</b>	<b>0.0905</b>		<b>0.0905</b>	<b>0.0905</b>	<b>0.0000</b>	<b>29.4819</b>	<b>29.4819</b>	<b>0.0286</b>	<b>0.0000</b>	<b>30.1958</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet



Install Low Flow Shower

Use Water Efficient Irrigation System

## 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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