

Appendix D:  
AQ and GHG Modeling

3003 North Runyon Canyon Road Existing - Los Angeles-South Coast County, Summer

**3003 North Runyon Canyon Road 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
Single Family Housing	1.00	Dwelling Unit	4.53	2,018.00	4

**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>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Developer information  
 Construction Phase -  
 Woodstoves - Conservative assumption

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	6,155.97	6,680.41
tblEnergyUse	T24E	210.90	238.85
tblEnergyUse	T24NG	22,665.25	28,690.19
tblFireplaces	NumberGas	0.85	1.00

tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	2,018.00
tblLandUse	LotAcreage	0.32	4.53
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545
Energy	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
Mobile	0.0252	0.1124	0.3474	9.8000e-004	0.0720	1.1500e-003	0.0732	0.0193	1.0900e-003	0.0204		99.5665	99.5665	6.0000e-003		99.7164
<b>Total</b>	<b>0.0741</b>	<b>0.1384</b>	<b>0.4411</b>	<b>1.1400e-003</b>	<b>0.0720</b>	<b>3.6200e-003</b>	<b>0.0757</b>	<b>0.0193</b>	<b>3.5600e-003</b>	<b>0.0228</b>	<b>0.0000</b>	<b>131.6961</b>	<b>131.6961</b>	<b>6.7600e-003</b>	<b>5.9000e-004</b>	<b>132.0397</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545

Energy	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
Mobile	0.0252	0.1124	0.3474	9.8000e-004	0.0720	1.1500e-003	0.0732	0.0193	1.0900e-003	0.0204		99.5665	99.5665	6.0000e-003		99.7164
<b>Total</b>	<b>0.0741</b>	<b>0.1384</b>	<b>0.4411</b>	<b>1.1400e-003</b>	<b>0.0720</b>	<b>3.6200e-003</b>	<b>0.0757</b>	<b>0.0193</b>	<b>3.5600e-003</b>	<b>0.0228</b>	<b>0.0000</b>	<b>131.6961</b>	<b>131.6961</b>	<b>6.7600e-003</b>	<b>5.9000e-004</b>	<b>132.0397</b>

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

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0252	0.1124	0.3474	9.8000e-004	0.0720	1.1500e-003	0.0732	0.0193	1.0900e-003	0.0204		99.5665	99.5665	6.0000e-003		99.7164
Unmitigated	0.0252	0.1124	0.3474	9.8000e-004	0.0720	1.1500e-003	0.0732	0.0193	1.0900e-003	0.0204		99.5665	99.5665	6.0000e-003		99.7164

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
<b>Total</b>	<b>9.52</b>	<b>9.91</b>	<b>8.62</b>	<b>32,282</b>	<b>32,282</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	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
Natural Gas Mitigated	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
Natural Gas Unmitigated	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688

#### 5.2 Energy by Land Use - Natural Gas

##### Unmitigated

Land Use	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
	kBTU/yr	lb/day										lb/day					

Single Family Housing	91.8389	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
<b>Total</b>		<b>9.9000e-004</b>	<b>8.4600e-003</b>	<b>3.6000e-003</b>	<b>5.0000e-005</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>10.8046</b>	<b>10.8046</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>10.8688</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0918389	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
<b>Total</b>		<b>9.9000e-004</b>	<b>8.4600e-003</b>	<b>3.6000e-003</b>	<b>5.0000e-005</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>10.8046</b>	<b>10.8046</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>10.8688</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545
Unmitigated	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.9400e-003	0.0166	7.0600e-003	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	21.1765	21.1765	4.1000e-004	3.9000e-004	21.3023
Landscaping	2.5600e-003	9.6000e-004	0.0831	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1486	0.1486	1.5000e-004		0.1522
<b>Total</b>	<b>0.0479</b>	<b>0.0176</b>	<b>0.0901</b>	<b>1.1000e-004</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>21.3250</b>	<b>21.3250</b>	<b>5.6000e-004</b>	<b>3.9000e-004</b>	<b>21.4545</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.9400e-003	0.0166	7.0600e-003	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	21.1765	21.1765	4.1000e-004	3.9000e-004	21.3023
Landscaping	2.5600e-003	9.6000e-004	0.0831	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1486	0.1486	1.5000e-004		0.1522
<b>Total</b>	<b>0.0479</b>	<b>0.0176</b>	<b>0.0901</b>	<b>1.1000e-004</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>21.3250</b>	<b>21.3250</b>	<b>5.6000e-004</b>	<b>3.9000e-004</b>	<b>21.4545</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 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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3003 North Runyon Canyon Road Existing - Los Angeles-South Coast County, Annual

**3003 North Runyon Canyon Road 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
Single Family Housing	1.00	Dwelling Unit	4.53	2,018.00	4

**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>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Developer information  
 Construction Phase -  
 Woodstoves - Conservative assumption

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	6,155.97	6,680.41
tblEnergyUse	T24E	210.90	238.85
tblEnergyUse	T24NG	22,665.25	28,690.19
tblFireplaces	NumberGas	0.85	1.00

tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	2,018.00
tblLandUse	LotAcreage	0.32	4.53
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.2700e-003	3.3000e-004	0.0105	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2570	0.2570	2.0000e-005	0.0000	0.2588
Energy	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.5386	6.5386	1.5000e-004	6.0000e-005	6.5590
Mobile	4.1600e-003	0.0205	0.0582	1.6000e-004	0.0123	2.0000e-004	0.0125	3.2900e-003	1.9000e-004	3.4700e-003	0.0000	15.1113	15.1113	9.3000e-004	0.0000	15.1347
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.0126</b>	<b>0.0224</b>	<b>0.0693</b>	<b>1.7000e-004</b>	<b>0.0123</b>	<b>3.9000e-004</b>	<b>0.0127</b>	<b>3.2900e-003</b>	<b>3.8000e-004</b>	<b>3.6600e-003</b>	<b>0.2704</b>	<b>22.6336</b>	<b>22.9040</b>	<b>0.0180</b>	<b>1.1000e-004</b>	<b>23.3879</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Area	8.2700e-003	3.3000e-004	0.0105	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2570	0.2570	2.0000e-005	0.0000	0.2588
Energy	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.5386	6.5386	1.5000e-004	6.0000e-005	6.5590
Mobile	4.1600e-003	0.0205	0.0582	1.6000e-004	0.0123	2.0000e-004	0.0125	3.2900e-003	1.9000e-004	3.4700e-003	0.0000	15.1113	15.1113	9.3000e-004	0.0000	15.1347
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.0126</b>	<b>0.0224</b>	<b>0.0693</b>	<b>1.7000e-004</b>	<b>0.0123</b>	<b>3.9000e-004</b>	<b>0.0127</b>	<b>3.2900e-003</b>	<b>3.8000e-004</b>	<b>3.6600e-003</b>	<b>0.2704</b>	<b>22.6336</b>	<b>22.9040</b>	<b>0.0180</b>	<b>1.1000e-004</b>	<b>23.3879</b>

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

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1600e-003	0.0205	0.0582	1.6000e-004	0.0123	2.0000e-004	0.0125	3.2900e-003	1.9000e-004	3.4700e-003	0.0000	15.1113	15.1113	9.3000e-004	0.0000	15.1347
Unmitigated	4.1600e-003	0.0205	0.0582	1.6000e-004	0.0123	2.0000e-004	0.0125	3.2900e-003	1.9000e-004	3.4700e-003	0.0000	15.1113	15.1113	9.3000e-004	0.0000	15.1347

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	9.52	9.91	8.62	32,282	32,282

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	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 Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.7498	4.7498	1.1000e-004	2.0000e-005	4.7595
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.7498	4.7498	1.1000e-004	2.0000e-005	4.7595
Natural Gas Mitigated	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7888	1.7888	3.0000e-005	3.0000e-005	1.7995
Natural Gas Unmitigated	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7888	1.7888	3.0000e-005	3.0000e-005	1.7995

### 5.2 Energy by Land Use - Natural Gas

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	33521.2	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7888	1.7888	3.0000e-005	3.0000e-005	1.7995
<b>Total</b>		<b>1.8000e-004</b>	<b>1.5400e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.7888</b>	<b>1.7888</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.7995</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	33521.2	1.8000e-004	1.5400e-003	6.6000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7888	1.7888	3.0000e-005	3.0000e-005	1.7995
<b>Total</b>		<b>1.8000e-004</b>	<b>1.5400e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.7888</b>	<b>1.7888</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.7995</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Single Family Housing	8528.1	4.7498	1.1000e-004	2.0000e-005	4.7595
<b>Total</b>		<b>4.7498</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>4.7595</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8528.1	4.7498	1.1000e-004	2.0000e-005	4.7595
<b>Total</b>		<b>4.7498</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>4.7595</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.2700e-003	3.3000e-004	0.0105	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2570	0.2570	2.0000e-005	0.0000	0.2588
Unmitigated	8.2700e-003	3.3000e-004	0.0105	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2570	0.2570	2.0000e-005	0.0000	0.2588

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.0000e-005	2.1000e-004	9.0000e-005	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2401	0.2401	0.0000	0.0000	0.2416
Landscaping	3.2000e-004	1.2000e-004	0.0104	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>8.2600e-003</b>	<b>3.3000e-004</b>	<b>0.0105</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2570</b>	<b>0.2570</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2588</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.0000e-005	2.1000e-004	9.0000e-005	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2401	0.2401	0.0000	0.0000	0.2416
Landscaping	3.2000e-004	1.2000e-004	0.0104	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>8.2600e-003</b>	<b>3.3000e-004</b>	<b>0.0105</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2570</b>	<b>0.2570</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2588</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7474	2.1400e-003	5.0000e-005	0.8169
Unmitigated	0.7474	2.1400e-003	5.0000e-005	0.8169

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

#### Mitigated



	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.6186
Unmitigated	0.2497	0.0148	0.0000	0.6186

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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3003 North Runyon Canyon Road Existing - Los Angeles-South Coast County, Winter

**3003 North Runyon Canyon Road 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
Single Family Housing	1.00	Dwelling Unit	4.53	2,018.00	4

**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>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Developer information  
 Construction Phase -  
 Woodstoves - Conservative assumption

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	6,155.97	6,680.41
tblEnergyUse	T24E	210.90	238.85
tblEnergyUse	T24NG	22,665.25	28,690.19
tblFireplaces	NumberGas	0.85	1.00

tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	2,018.00
tblLandUse	LotAcreage	0.32	4.53
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545
Energy	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
Mobile	0.0246	0.1160	0.3308	9.3000e-004	0.0720	1.1600e-003	0.0732	0.0193	1.0900e-003	0.0204		94.6851	94.6851	5.9500e-003		94.8339
<b>Total</b>	<b>0.0735</b>	<b>0.1420</b>	<b>0.4245</b>	<b>1.0900e-003</b>	<b>0.0720</b>	<b>3.6300e-003</b>	<b>0.0757</b>	<b>0.0193</b>	<b>3.5600e-003</b>	<b>0.0228</b>	<b>0.0000</b>	<b>126.8147</b>	<b>126.8147</b>	<b>6.7100e-003</b>	<b>5.9000e-004</b>	<b>127.1572</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545

Energy	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
Mobile	0.0246	0.1160	0.3308	9.3000e-004	0.0720	1.1600e-003	0.0732	0.0193	1.0900e-003	0.0204		94.6851	94.6851	5.9500e-003		94.8339
<b>Total</b>	<b>0.0735</b>	<b>0.1420</b>	<b>0.4245</b>	<b>1.0900e-003</b>	<b>0.0720</b>	<b>3.6300e-003</b>	<b>0.0757</b>	<b>0.0193</b>	<b>3.5600e-003</b>	<b>0.0228</b>	<b>0.0000</b>	<b>126.8147</b>	<b>126.8147</b>	<b>6.7100e-003</b>	<b>5.9000e-004</b>	<b>127.1572</b>

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

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0246	0.1160	0.3308	9.3000e-004	0.0720	1.1600e-003	0.0732	0.0193	1.0900e-003	0.0204		94.6851	94.6851	5.9500e-003		94.8339
Unmitigated	0.0246	0.1160	0.3308	9.3000e-004	0.0720	1.1600e-003	0.0732	0.0193	1.0900e-003	0.0204		94.6851	94.6851	5.9500e-003		94.8339

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
<b>Total</b>	<b>9.52</b>	<b>9.91</b>	<b>8.62</b>	<b>32,282</b>	<b>32,282</b>

### 4.3 Trip Type Information



Single Family Housing	91.8389	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
<b>Total</b>		<b>9.9000e-004</b>	<b>8.4600e-003</b>	<b>3.6000e-003</b>	<b>5.0000e-005</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>10.8046</b>	<b>10.8046</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>10.8688</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Single Family Housing	0.0918389	9.9000e-004	8.4600e-003	3.6000e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.8046	10.8046	2.1000e-004	2.0000e-004	10.8688
<b>Total</b>		<b>9.9000e-004</b>	<b>8.4600e-003</b>	<b>3.6000e-003</b>	<b>5.0000e-005</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>6.8000e-004</b>	<b>6.8000e-004</b>		<b>10.8046</b>	<b>10.8046</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>10.8688</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Mitigated	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545
Unmitigated	0.0479	0.0176	0.0901	1.1000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	21.3250	21.3250	5.5000e-004	3.9000e-004	21.4545

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.9400e-003	0.0166	7.0600e-003	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	21.1765	21.1765	4.1000e-004	3.9000e-004	21.3023
Landscaping	2.5600e-003	9.6000e-004	0.0831	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1486	0.1486	1.5000e-004		0.1522
<b>Total</b>	<b>0.0479</b>	<b>0.0176</b>	<b>0.0901</b>	<b>1.1000e-004</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>21.3250</b>	<b>21.3250</b>	<b>5.6000e-004</b>	<b>3.9000e-004</b>	<b>21.4545</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.9400e-003	0.0166	7.0600e-003	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	21.1765	21.1765	4.1000e-004	3.9000e-004	21.3023
Landscaping	2.5600e-003	9.6000e-004	0.0831	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1486	0.1486	1.5000e-004		0.1522
<b>Total</b>	<b>0.0479</b>	<b>0.0176</b>	<b>0.0901</b>	<b>1.1000e-004</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>21.3250</b>	<b>21.3250</b>	<b>5.6000e-004</b>	<b>3.9000e-004</b>	<b>21.4545</b>



## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 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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3003 North Runyon Canyon Road Future - Los Angeles-South Coast County, Annual

**3003 North Runyon Canyon Road Future  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	4.53	16,000.00	4

**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>	2020
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Consultant assumptions

Land Use - Developer information

Construction Phase - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Conservative assumption

Construction Off-road Equipment Mitigation - Assumes compliance with SCAQMD Rule 403 control measures and efficiencies. 46% efficiency for soil stabilizers

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	65.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.00	3.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53
tblLandUse	Population	3.00	4.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

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### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3326	3.0838	2.2923	3.6900e-003	0.2644	0.1809	0.4453	0.1435	0.1693	0.3128	0.0000	324.1571	324.1571	0.0829	0.0000	326.2290
2020	0.1175	0.5979	0.5659	9.1000e-004	2.4100e-003	0.0348	0.0372	6.4000e-004	0.0328	0.0335	0.0000	78.3504	78.3504	0.0185	0.0000	78.8134
<b>Maximum</b>	<b>0.3326</b>	<b>3.0838</b>	<b>2.2923</b>	<b>3.6900e-003</b>	<b>0.2644</b>	<b>0.1809</b>	<b>0.4453</b>	<b>0.1435</b>	<b>0.1693</b>	<b>0.3128</b>	<b>0.0000</b>	<b>324.1571</b>	<b>324.1571</b>	<b>0.0829</b>	<b>0.0000</b>	<b>326.2290</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3326	3.0838	2.2923	3.6900e-003	0.0988	0.1809	0.2797	0.0534	0.1693	0.2227	0.0000	324.1567	324.1567	0.0829	0.0000	326.2286
2020	0.1175	0.5979	0.5659	9.1000e-004	1.4500e-003	0.0348	0.0363	4.0000e-004	0.0328	0.0332	0.0000	78.3503	78.3503	0.0185	0.0000	78.8133
<b>Maximum</b>	<b>0.3326</b>	<b>3.0838</b>	<b>2.2923</b>	<b>3.6900e-003</b>	<b>0.0988</b>	<b>0.1809</b>	<b>0.2797</b>	<b>0.0534</b>	<b>0.1693</b>	<b>0.2227</b>	<b>0.0000</b>	<b>324.1567</b>	<b>324.1567</b>	<b>0.0829</b>	<b>0.0000</b>	<b>326.2286</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>62.41</b>	<b>0.00</b>	<b>34.51</b>	<b>62.65</b>	<b>0.00</b>	<b>26.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	11-10-2018	2-9-2019	0.6365	0.6365
3	2-10-2019	5-9-2019	0.7968	0.7968
4	5-10-2019	8-9-2019	0.7702	0.7702
5	8-10-2019	11-9-2019	0.7702	0.7702
6	11-10-2019	2-9-2020	0.7397	0.7397

7	2-10-2020	5-9-2020	0.3769	0.3769
8	5-10-2020	8-9-2020	0.0272	0.0272
		Highest	0.7968	0.7968

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	7.8000e-004	0.0747	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.0169	0.8028	2.0000e-005	7.0000e-005	0.8238
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.9095	5.9095	1.3000e-004	5.0000e-005	5.9273
Mobile	3.4400e-003	0.0178	0.0479	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4300e-003	0.0000	14.3874	14.3874	8.0000e-004	0.0000	14.4074
Waste						0.0000	0.0000		0.0000	0.0000	0.3329	0.0000	0.3329	0.0197	0.0000	0.8248
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.1251</b>	<b>0.0199</b>	<b>0.1232</b>	<b>2.7000e-004</b>	<b>0.0123</b>	<b>9.1300e-003</b>	<b>0.0214</b>	<b>3.2800e-003</b>	<b>9.1200e-003</b>	<b>0.0124</b>	<b>1.1395</b>	<b>21.0404</b>	<b>22.1799</b>	<b>0.0228</b>	<b>1.7000e-004</b>	<b>22.8001</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	7.8000e-004	0.0747	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.0169	0.8028	2.0000e-005	7.0000e-005	0.8238
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.9095	5.9095	1.3000e-004	5.0000e-005	5.9273
Mobile	3.4400e-003	0.0178	0.0479	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4300e-003	0.0000	14.3874	14.3874	8.0000e-004	0.0000	14.4074

Waste						0.0000	0.0000		0.0000	0.0000	0.3329	0.0000	0.3329	0.0197	0.0000	0.8248
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.1251</b>	<b>0.0199</b>	<b>0.1232</b>	<b>2.7000e-004</b>	<b>0.0123</b>	<b>9.1300e-003</b>	<b>0.0214</b>	<b>3.2800e-003</b>	<b>9.1200e-003</b>	<b>0.0124</b>	<b>1.1395</b>	<b>21.0404</b>	<b>22.1799</b>	<b>0.0228</b>	<b>1.7000e-004</b>	<b>22.8001</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2019	1/31/2019	5	22	
2	Grading	Grading	2/1/2019	2/28/2019	5	20	
3	Building Construction	Building Construction	3/1/2019	2/28/2020	5	261	
4	Paving	Paving	3/1/2020	3/31/2020	5	22	
5	Architectural Coating	Architectural Coating	3/1/2020	5/31/2020	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Site Preparation - 2019

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5013	0.2427	4.2000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	37.5856	37.5856	0.0119	0.0000	37.8829
<b>Total</b>	<b>0.0477</b>	<b>0.5013</b>	<b>0.2427</b>	<b>4.2000e-004</b>	<b>0.1987</b>	<b>0.0263</b>	<b>0.2250</b>	<b>0.1092</b>	<b>0.0242</b>	<b>0.1334</b>	<b>0.0000</b>	<b>37.5856</b>	<b>37.5856</b>	<b>0.0119</b>	<b>0.0000</b>	<b>37.8829</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-004	8.3000e-004	8.9900e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	2.0857	2.0857	7.0000e-005	0.0000	2.0874
<b>Total</b>	<b>9.9000e-004</b>	<b>8.3000e-004</b>	<b>8.9900e-003</b>	<b>2.0000e-005</b>	<b>2.1700e-003</b>	<b>2.0000e-005</b>	<b>2.1900e-003</b>	<b>5.8000e-004</b>	<b>2.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.0857</b>	<b>2.0857</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0874</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0736	0.0000	0.0736	0.0405	0.0000	0.0405	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5013	0.2427	4.2000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	37.5855	37.5855	0.0119	0.0000	37.8828
<b>Total</b>	<b>0.0477</b>	<b>0.5013</b>	<b>0.2427</b>	<b>4.2000e-004</b>	<b>0.0736</b>	<b>0.0263</b>	<b>0.0999</b>	<b>0.0405</b>	<b>0.0242</b>	<b>0.0647</b>	<b>0.0000</b>	<b>37.5855</b>	<b>37.5855</b>	<b>0.0119</b>	<b>0.0000</b>	<b>37.8828</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-004	8.3000e-004	8.9900e-003	2.0000e-005	1.3000e-003	2.0000e-005	1.3200e-003	3.6000e-004	2.0000e-005	3.8000e-004	0.0000	2.0857	2.0857	7.0000e-005	0.0000	2.0874
<b>Total</b>	<b>9.9000e-004</b>	<b>8.3000e-004</b>	<b>8.9900e-003</b>	<b>2.0000e-005</b>	<b>1.3000e-003</b>	<b>2.0000e-005</b>	<b>1.3200e-003</b>	<b>3.6000e-004</b>	<b>2.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>2.0857</b>	<b>2.0857</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0874</b>

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0618	0.0000	0.0618	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.2835	0.1629	3.0000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	26.6423	26.6423	8.4300e-003	0.0000	26.8530

<b>Total</b>	<b>0.0258</b>	<b>0.2835</b>	<b>0.1629</b>	<b>3.0000e-004</b>	<b>0.0618</b>	<b>0.0140</b>	<b>0.0758</b>	<b>0.0333</b>	<b>0.0129</b>	<b>0.0461</b>	<b>0.0000</b>	<b>26.6423</b>	<b>26.6423</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.8530</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.3000e-004	6.8100e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5800	1.5800	5.0000e-005	0.0000	1.5814
<b>Total</b>	<b>7.5000e-004</b>	<b>6.3000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.5800</b>	<b>1.5800</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.5814</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0229	0.0000	0.0229	0.0123	0.0000	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.2835	0.1629	3.0000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	26.6422	26.6422	8.4300e-003	0.0000	26.8530
<b>Total</b>	<b>0.0258</b>	<b>0.2835</b>	<b>0.1629</b>	<b>3.0000e-004</b>	<b>0.0229</b>	<b>0.0140</b>	<b>0.0369</b>	<b>0.0123</b>	<b>0.0129</b>	<b>0.0252</b>	<b>0.0000</b>	<b>26.6422</b>	<b>26.6422</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.8530</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.3000e-004	6.8100e-003	2.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.5800	1.5800	5.0000e-005	0.0000	1.5814
<b>Total</b>	<b>7.5000e-004</b>	<b>6.3000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.5800</b>	<b>1.5800</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.5814</b>

### 3.4 Building Construction - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2574	2.2976	1.8709	2.9300e-003		0.1406	0.1406		0.1322	0.1322	0.0000	256.2636	256.2636	0.0624	0.0000	257.8243
<b>Total</b>	<b>0.2574</b>	<b>2.2976</b>	<b>1.8709</b>	<b>2.9300e-003</b>		<b>0.1406</b>	<b>0.1406</b>		<b>0.1322</b>	<b>0.1322</b>	<b>0.0000</b>	<b>256.2636</b>	<b>256.2636</b>	<b>0.0624</b>	<b>0.0000</b>	<b>257.8243</b>

#### Unmitigated Construction Off-Site

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



### 3.4 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0456	0.4125	0.3622	5.8000e-004		0.0240	0.0240		0.0226	0.0226	0.0000	49.7962	49.7962	0.0122	0.0000	50.0999
<b>Total</b>	<b>0.0456</b>	<b>0.4125</b>	<b>0.3622</b>	<b>5.8000e-004</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>49.7962</b>	<b>49.7962</b>	<b>0.0122</b>	<b>0.0000</b>	<b>50.0999</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated Construction On-Site



<b>Total</b>	<b>0.0130</b>	<b>0.1298</b>	<b>0.1351</b>	<b>2.1000e-004</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>		<b>6.6100e-003</b>	<b>6.6100e-003</b>	<b>0.0000</b>	<b>18.0092</b>	<b>18.0092</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1507</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	8.2000e-004	9.0600e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.2470	2.2470	7.0000e-005	0.0000	2.2487
<b>Total</b>	<b>1.0200e-003</b>	<b>8.2000e-004</b>	<b>9.0600e-003</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>2.0000e-005</b>	<b>2.4300e-003</b>	<b>6.4000e-004</b>	<b>2.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.2470</b>	<b>2.2470</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2487</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0130	0.1298	0.1351	2.1000e-004		7.1600e-003	7.1600e-003		6.6100e-003	6.6100e-003	0.0000	18.0092	18.0092	5.6600e-003	0.0000	18.1507
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0130</b>	<b>0.1298</b>	<b>0.1351</b>	<b>2.1000e-004</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>		<b>6.6100e-003</b>	<b>6.6100e-003</b>	<b>0.0000</b>	<b>18.0092</b>	<b>18.0092</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1507</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	8.2000e-004	9.0600e-003	2.0000e-005	1.4500e-003	2.0000e-005	1.4700e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	2.2470	2.2470	7.0000e-005	0.0000	2.2487
<b>Total</b>	<b>1.0200e-003</b>	<b>8.2000e-004</b>	<b>9.0600e-003</b>	<b>2.0000e-005</b>	<b>1.4500e-003</b>	<b>2.0000e-005</b>	<b>1.4700e-003</b>	<b>4.0000e-004</b>	<b>2.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>2.2470</b>	<b>2.2470</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2487</b>

### 3.6 Architectural Coating - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8700e-003	0.0547	0.0595	1.0000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	8.2981	8.2981	6.4000e-004	0.0000	8.3141
<b>Total</b>	<b>0.0579</b>	<b>0.0547</b>	<b>0.0595</b>	<b>1.0000e-004</b>		<b>3.6100e-003</b>	<b>3.6100e-003</b>		<b>3.6100e-003</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>8.3141</b>

#### Unmitigated Construction Off-Site

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





## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4400e-003	0.0178	0.0479	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4300e-003	0.0000	14.3874	14.3874	8.0000e-004	0.0000	14.4074
Unmitigated	3.4400e-003	0.0178	0.0479	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4300e-003	0.0000	14.3874	14.3874	8.0000e-004	0.0000	14.4074

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,263	32,263
Total	9.52	9.91	8.62	32,263	32,263

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.4422	4.4422	1.0000e-004	2.0000e-005	4.4513
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.4422	4.4422	1.0000e-004	2.0000e-005	4.4513
Natural Gas Mitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760
Natural Gas Unmitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760

### 5.2 Energy by Land Use - Natural Gas

#### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	27496.3	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4673</b>	<b>1.4673</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4760</b>

#### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	27496.3	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4673	1.4673	3.0000e-005	3.0000e-005	1.4760
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4673</b>	<b>1.4673</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4760</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	7975.71	4.4422	1.0000e-004	2.0000e-005	4.4513
<b>Total</b>		<b>4.4422</b>	<b>1.0000e-004</b>	<b>2.0000e-005</b>	<b>4.4513</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	7975.71	4.4422	1.0000e-004	2.0000e-005	4.4513

Total		4.4422	1.0000e-004	2.0000e-005	4.4513
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## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1215	7.8000e-004	0.0747	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.0169	0.8028	2.0000e-005	7.0000e-005	0.8238
Unmitigated	0.1215	7.8000e-004	0.0747	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.0169	0.8028	2.0000e-005	7.0000e-005	0.8238

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0584	6.6000e-004	0.0644	1.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.7859	0.0000	0.7859	0.0000	7.0000e-005	0.8066

Landscaping	3.2000e-004	1.2000e-004	0.0104	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.1215</b>	<b>7.8000e-004</b>	<b>0.0747</b>	<b>1.0000e-004</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>	<b>0.7859</b>	<b>0.0169</b>	<b>0.8028</b>	<b>2.0000e-005</b>	<b>7.0000e-005</b>	<b>0.8238</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0584	6.6000e-004	0.0644	1.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.7859	0.0000	0.7859	0.0000	7.0000e-005	0.8066
Landscaping	3.2000e-004	1.2000e-004	0.0104	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.1215</b>	<b>7.8000e-004</b>	<b>0.0747</b>	<b>1.0000e-004</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>	<b>0.7859</b>	<b>0.0169</b>	<b>0.8028</b>	<b>2.0000e-005</b>	<b>7.0000e-005</b>	<b>0.8238</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7474	2.1400e-003	5.0000e-005	0.8169
Unmitigated	0.7474	2.1400e-003	5.0000e-005	0.8169

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3329	0.0197	0.0000	0.8248
Unmitigated	0.3329	0.0197	0.0000	0.8248

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.64	0.3329	0.0197	0.0000	0.8248
<b>Total</b>		<b>0.3329</b>	<b>0.0197</b>	<b>0.0000</b>	<b>0.8248</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			



Single Family Housing	1.64	0.3329	0.0197	0.0000	0.8248
<b>Total</b>		<b>0.3329</b>	<b>0.0197</b>	<b>0.0000</b>	<b>0.8248</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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3003 North Runyon Canyon Road Future - Los Angeles-South Coast County, Winter

**3003 North Runyon Canyon Road Future**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	4.53	16,000.00	4

**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>	2020
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<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 - Consultant assumptions

Land Use - Developer information

Construction Phase - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Conservative assumption

Construction Off-road Equipment Mitigation - Assumes compliance with SCAQMD Rule 403 control measures and efficiencies. 46% efficiency for soil stabilizers

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	65.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.00	3.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53
tblLandUse	Population	3.00	4.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4347	45.6459	22.8595	0.0401	18.2675	2.3921	20.6596	9.9840	2.2007	12.1848	0.0000	3,972.0364	3,972.0364	1.1987	0.0000	4,002.0049
2020	3.0683	19.1860	16.8485	0.0269	0.2236	1.1171	1.1171	0.0593	1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229	0.0000	2,568.6345
<b>Maximum</b>	<b>4.4347</b>	<b>45.6459</b>	<b>22.8595</b>	<b>0.0401</b>	<b>18.2675</b>	<b>2.3921</b>	<b>20.6596</b>	<b>9.9840</b>	<b>2.2007</b>	<b>12.1848</b>	<b>0.0000</b>	<b>3,972.0364</b>	<b>3,972.0364</b>	<b>1.1987</b>	<b>0.0000</b>	<b>4,002.0049</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4347	45.6459	22.8595	0.0401	6.8143	2.3921	9.2064	3.7129	2.2007	5.9137	0.0000	3,972.0364	3,972.0364	1.1987	0.0000	4,002.0049
2020	3.0683	19.1860	16.8485	0.0269	0.1342	1.1171	1.1171	0.0373	1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229	0.0000	2,568.6345
<b>Maximum</b>	<b>4.4347</b>	<b>45.6459</b>	<b>22.8595</b>	<b>0.0401</b>	<b>6.8143</b>	<b>2.3921</b>	<b>9.2064</b>	<b>3.7129</b>	<b>2.2007</b>	<b>5.9137</b>	<b>0.0000</b>	<b>3,972.0364</b>	<b>3,972.0364</b>	<b>1.1987</b>	<b>0.0000</b>	<b>4,002.0049</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>62.42</b>	<b>0.00</b>	<b>52.59</b>	<b>62.66</b>	<b>0.00</b>	<b>47.38</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**



1	Site Preparation	Site Preparation	1/2/2019	1/31/2019	5	22
2	Grading	Grading	2/1/2019	2/28/2019	5	20
3	Building Construction	Building Construction	3/1/2019	2/28/2020	5	261
4	Paving	Paving	3/1/2020	3/31/2020	5	22
5	Architectural Coating	Architectural Coating	3/1/2020	5/31/2020	5	65

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

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
<b>Total</b>	<b>0.0997</b>	<b>0.0732</b>	<b>0.7965</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.7300e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.6000e-003</b>	<b>0.0550</b>		<b>205.5836</b>	<b>205.5836</b>	<b>7.0700e-003</b>		<b>205.7604</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>6.6936</b>	<b>2.3904</b>	<b>9.0839</b>	<b>3.6793</b>	<b>2.1991</b>	<b>5.8785</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

### Mitigated Construction Off-Site

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



Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.1207	1.7300e-003	0.1225	0.0336	1.6000e-003	0.0352		205.5836	205.5836	7.0700e-003		205.7604
<b>Total</b>	<b>0.0997</b>	<b>0.0732</b>	<b>0.7965</b>	<b>2.0700e-003</b>	<b>0.1207</b>	<b>1.7300e-003</b>	<b>0.1225</b>	<b>0.0336</b>	<b>1.6000e-003</b>	<b>0.0352</b>		<b>205.5836</b>	<b>205.5836</b>	<b>7.0700e-003</b>		<b>205.7604</b>

### 3.3 Grading - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1812	0.0000	6.1812	3.3274	0.0000	3.3274			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>6.1812</b>	<b>1.3974</b>	<b>7.5785</b>	<b>3.3274</b>	<b>1.2856</b>	<b>4.6130</b>		<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.0831</b>	<b>0.0610</b>	<b>0.6637</b>	<b>1.7200e-003</b>	<b>0.1677</b>	<b>1.4500e-003</b>	<b>0.1691</b>	<b>0.0445</b>	<b>1.3300e-003</b>	<b>0.0458</b>		<b>171.3196</b>	<b>171.3196</b>	<b>5.8900e-003</b>		<b>171.4670</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2901	0.0000	2.2901	1.2328	0.0000	1.2328			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>2.2901</b>	<b>1.3974</b>	<b>3.6875</b>	<b>1.2328</b>	<b>1.2856</b>	<b>2.5184</b>	<b>0.0000</b>	<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0610	0.6637	1.7200e-003	0.1006	1.4500e-003	0.1021	0.0280	1.3300e-003	0.0293		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.0831</b>	<b>0.0610</b>	<b>0.6637</b>	<b>1.7200e-003</b>	<b>0.1006</b>	<b>1.4500e-003</b>	<b>0.1021</b>	<b>0.0280</b>	<b>1.3300e-003</b>	<b>0.0293</b>		<b>171.3196</b>	<b>171.3196</b>	<b>5.8900e-003</b>		<b>171.4670</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 3.5 Paving - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>		<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
<b>Total</b>	<b>0.1022</b>	<b>0.0725</b>	<b>0.8020</b>	<b>2.2200e-003</b>	<b>0.2236</b>	<b>1.8700e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.7200e-003</b>	<b>0.0610</b>		<b>221.4841</b>	<b>221.4841</b>	<b>6.9800e-003</b>		<b>221.6586</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>	<b>0.0000</b>	<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.1342	1.8700e-003	0.1360	0.0373	1.7200e-003	0.0391		221.4841	221.4841	6.9800e-003		221.6586
<b>Total</b>	<b>0.1022</b>	<b>0.0725</b>	<b>0.8020</b>	<b>2.2200e-003</b>	<b>0.1342</b>	<b>1.8700e-003</b>	<b>0.1360</b>	<b>0.0373</b>	<b>1.7200e-003</b>	<b>0.0391</b>		<b>221.4841</b>	<b>221.4841</b>	<b>6.9800e-003</b>		<b>221.6586</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.7824</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928



<b>Total</b>	<b>1.7824</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0203	0.1007	0.2723	8.9000e-004	0.0720	9.3000e-004	0.0729	0.0193	8.8000e-004	0.0201		90.1453	90.1453	5.1100e-003		90.2730
Unmitigated	0.0203	0.1007	0.2723	8.9000e-004	0.0720	9.3000e-004	0.0729	0.0193	8.8000e-004	0.0201		90.1453	90.1453	5.1100e-003		90.2730

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,263	32,263
Total	9.52	9.91	8.62	32,263	32,263

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Natural Gas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
Natural Gas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	75.3322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8626</b>	<b>8.8626</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9153</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0753322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8626</b>	<b>8.8626</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9153</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.0147	0.0540	5.2318	8.1600e-003		0.7057	0.7057		0.7057	0.7057	69.3056	0.1486	69.4542	1.4000e-004	6.1200e-003	71.2801
Unmitigated	5.0147	0.0540	5.2318	8.1600e-003		0.7057	0.7057		0.7057	0.7057	69.3056	0.1486	69.4542	1.4000e-004	6.1200e-003	71.2801

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.6679	0.0530	5.1490	8.1500e-003		0.7053	0.7053		0.7053	0.7053	69.3056	0.0000	69.3056	0.0000	6.1200e-003	71.1279
Landscaping	2.5200e-003	9.6000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>5.0147</b>	<b>0.0540</b>	<b>5.2318</b>	<b>8.1500e-003</b>		<b>0.7058</b>	<b>0.7058</b>		<b>0.7058</b>	<b>0.7058</b>	<b>69.3056</b>	<b>0.1486</b>	<b>69.4542</b>	<b>1.4000e-004</b>	<b>6.1200e-003</b>	<b>71.2801</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.6679	0.0530	5.1490	8.1500e-003		0.7053	0.7053		0.7053	0.7053	69.3056	0.0000	69.3056	0.0000	6.1200e-003	71.1279
Landscaping	2.5200e-003	9.6000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>5.0147</b>	<b>0.0540</b>	<b>5.2318</b>	<b>8.1500e-003</b>		<b>0.7058</b>	<b>0.7058</b>		<b>0.7058</b>	<b>0.7058</b>	<b>69.3056</b>	<b>0.1486</b>	<b>69.4542</b>	<b>1.4000e-004</b>	<b>6.1200e-003</b>	<b>71.2801</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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3003 North Runyon Canyon Road Future - Los Angeles-South Coast County, Summer

**3003 North Runyon Canyon Road Future**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	4.53	16,000.00	4

**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>	2020
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Consultant assumptions

Land Use - Developer information

Construction Phase - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Conservative assumption

Construction Off-road Equipment Mitigation - Assumes compliance with SCAQMD Rule 403 control measures and efficiencies. 46% efficiency for soil stabilizers

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	18.00	65.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.00	3.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53
tblLandUse	Population	3.00	4.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4249	45.6388	22.9309	0.0402	18.2675	2.3921	20.6596	9.9840	2.2007	12.1848	0.0000	3,984.7844	3,984.7844	1.1992	0.0000	4,014.7635
2020	3.0582	19.1860	16.8485	0.0269	0.2236	1.1171	1.1171	0.0593	1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229	0.0000	2,568.6345
<b>Maximum</b>	<b>4.4249</b>	<b>45.6388</b>	<b>22.9309</b>	<b>0.0402</b>	<b>18.2675</b>	<b>2.3921</b>	<b>20.6596</b>	<b>9.9840</b>	<b>2.2007</b>	<b>12.1848</b>	<b>0.0000</b>	<b>3,984.7844</b>	<b>3,984.7844</b>	<b>1.1992</b>	<b>0.0000</b>	<b>4,014.7635</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4249	45.6388	22.9309	0.0402	6.8143	2.3921	9.2064	3.7129	2.2007	5.9137	0.0000	3,984.7844	3,984.7844	1.1992	0.0000	4,014.7635
2020	3.0582	19.1860	16.8485	0.0269	0.1342	1.1171	1.1171	0.0373	1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229	0.0000	2,568.6345
<b>Maximum</b>	<b>4.4249</b>	<b>45.6388</b>	<b>22.9309</b>	<b>0.0402</b>	<b>6.8143</b>	<b>2.3921</b>	<b>9.2064</b>	<b>3.7129</b>	<b>2.2007</b>	<b>5.9137</b>	<b>0.0000</b>	<b>3,984.7844</b>	<b>3,984.7844</b>	<b>1.1992</b>	<b>0.0000</b>	<b>4,014.7635</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>62.42</b>	<b>0.00</b>	<b>52.59</b>	<b>62.66</b>	<b>0.00</b>	<b>47.38</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 2.2 Overall Operational

### Unmitigated Operational





1	Site Preparation	Site Preparation	1/2/2019	1/31/2019	5	22
2	Grading	Grading	2/1/2019	2/28/2019	5	20
3	Building Construction	Building Construction	3/1/2019	2/28/2020	5	261
4	Paving	Paving	3/1/2020	3/31/2020	5	22
5	Architectural Coating	Architectural Coating	3/1/2020	5/31/2020	5	65

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

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
<b>Total</b>	<b>0.0899</b>	<b>0.0661</b>	<b>0.8679</b>	<b>2.1900e-003</b>	<b>0.2012</b>	<b>1.7300e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.6000e-003</b>	<b>0.0550</b>		<b>218.3315</b>	<b>218.3315</b>	<b>7.5000e-003</b>		<b>218.5190</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>6.6936</b>	<b>2.3904</b>	<b>9.0839</b>	<b>3.6793</b>	<b>2.1991</b>	<b>5.8785</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.1207	1.7300e-003	0.1225	0.0336	1.6000e-003	0.0352		218.3315	218.3315	7.5000e-003		218.5190
<b>Total</b>	<b>0.0899</b>	<b>0.0661</b>	<b>0.8679</b>	<b>2.1900e-003</b>	<b>0.1207</b>	<b>1.7300e-003</b>	<b>0.1225</b>	<b>0.0336</b>	<b>1.6000e-003</b>	<b>0.0352</b>		<b>218.3315</b>	<b>218.3315</b>	<b>7.5000e-003</b>		<b>218.5190</b>

### 3.3 Grading - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1812	0.0000	6.1812	3.3274	0.0000	3.3274			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>6.1812</b>	<b>1.3974</b>	<b>7.5785</b>	<b>3.3274</b>	<b>1.2856</b>	<b>4.6130</b>		<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0551	0.7233	1.8300e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		181.9429	181.9429	6.2500e-003		182.0992
<b>Total</b>	<b>0.0749</b>	<b>0.0551</b>	<b>0.7233</b>	<b>1.8300e-003</b>	<b>0.1677</b>	<b>1.4500e-003</b>	<b>0.1691</b>	<b>0.0445</b>	<b>1.3300e-003</b>	<b>0.0458</b>		<b>181.9429</b>	<b>181.9429</b>	<b>6.2500e-003</b>		<b>182.0992</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2901	0.0000	2.2901	1.2328	0.0000	1.2328			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>2.2901</b>	<b>1.3974</b>	<b>3.6875</b>	<b>1.2328</b>	<b>1.2856</b>	<b>2.5184</b>	<b>0.0000</b>	<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0551	0.7233	1.8300e-003	0.1006	1.4500e-003	0.1021	0.0280	1.3300e-003	0.0293		181.9429	181.9429	6.2500e-003		182.0992
<b>Total</b>	<b>0.0749</b>	<b>0.0551</b>	<b>0.7233</b>	<b>1.8300e-003</b>	<b>0.1006</b>	<b>1.4500e-003</b>	<b>0.1021</b>	<b>0.0280</b>	<b>1.3300e-003</b>	<b>0.0293</b>		<b>181.9429</b>	<b>181.9429</b>	<b>6.2500e-003</b>		<b>182.0992</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**Unmitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 3.5 Paving - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>		<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
<b>Total</b>	<b>0.0920</b>	<b>0.0655</b>	<b>0.8757</b>	<b>2.3600e-003</b>	<b>0.2236</b>	<b>1.8700e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.7200e-003</b>	<b>0.0610</b>		<b>235.2226</b>	<b>235.2226</b>	<b>7.4200e-003</b>		<b>235.4080</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>	<b>0.0000</b>	<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.1342	1.8700e-003	0.1360	0.0373	1.7200e-003	0.0391		235.2226	235.2226	7.4200e-003		235.4080
<b>Total</b>	<b>0.0920</b>	<b>0.0655</b>	<b>0.8757</b>	<b>2.3600e-003</b>	<b>0.1342</b>	<b>1.8700e-003</b>	<b>0.1360</b>	<b>0.0373</b>	<b>1.7200e-003</b>	<b>0.0391</b>		<b>235.2226</b>	<b>235.2226</b>	<b>7.4200e-003</b>		<b>235.4080</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.7824</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

<b>Total</b>	<b>1.7824</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0208	0.0979	0.2866	9.3000e-004	0.0720	9.3000e-004	0.0729	0.0193	8.7000e-004	0.0201		94.7550	94.7550	5.1400e-003		94.8834
Unmitigated	0.0208	0.0979	0.2866	9.3000e-004	0.0720	9.3000e-004	0.0729	0.0193	8.7000e-004	0.0201		94.7550	94.7550	5.1400e-003		94.8834

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,263	32,263
Total	9.52	9.91	8.62	32,263	32,263

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Natural Gas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
Natural Gas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	75.3322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8626</b>	<b>8.8626</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9153</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0753322	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8626	8.8626	1.7000e-004	1.6000e-004	8.9153
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8626</b>	<b>8.8626</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9153</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.0147	0.0540	5.2318	8.1600e-003		0.7057	0.7057		0.7057	0.7057	69.3056	0.1486	69.4542	1.4000e-004	6.1200e-003	71.2801
Unmitigated	5.0147	0.0540	5.2318	8.1600e-003		0.7057	0.7057		0.7057	0.7057	69.3056	0.1486	69.4542	1.4000e-004	6.1200e-003	71.2801

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.6679	0.0530	5.1490	8.1500e-003		0.7053	0.7053		0.7053	0.7053	69.3056	0.0000	69.3056	0.0000	6.1200e-003	71.1279
Landscaping	2.5200e-003	9.6000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>5.0147</b>	<b>0.0540</b>	<b>5.2318</b>	<b>8.1500e-003</b>		<b>0.7058</b>	<b>0.7058</b>		<b>0.7058</b>	<b>0.7058</b>	<b>69.3056</b>	<b>0.1486</b>	<b>69.4542</b>	<b>1.4000e-004</b>	<b>6.1200e-003</b>	<b>71.2801</b>

### Mitigated



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.6679	0.0530	5.1490	8.1500e-003		0.7053	0.7053		0.7053	0.7053	69.3056	0.0000	69.3056	0.0000	6.1200e-003	71.1279
Landscaping	2.5200e-003	9.6000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>5.0147</b>	<b>0.0540</b>	<b>5.2318</b>	<b>8.1500e-003</b>		<b>0.7058</b>	<b>0.7058</b>		<b>0.7058</b>	<b>0.7058</b>	<b>69.3056</b>	<b>0.1486</b>	<b>69.4542</b>	<b>1.4000e-004</b>	<b>6.1200e-003</b>	<b>71.2801</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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