

Appendix D-2:  
AQ and GHG Modeling Update

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



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>	2021
<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 - Assumes 14CY per haul truck, transport to landfill 25 miles or less away

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Assumes two natural gas interior fireplaces and one outdoor propane fireplace

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

Energy Use - Uses default electricity use for a single-family home, but includes electricity consumption for two Teslas. This assumes 100kWh per full charge at 200 miles

Water And Wastewater - Assumes twice the indoor and out door water use per year of average homes and twice the electricity intensity to supply water to the

Stationary Sources - Emergency Generators and Fire Pumps - Assumes use of one diesel-powered generator one hour each day

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	23.00
tblEnergyUse	NT24E	5,089.81	26,955.97
tblEnergyUse	NT24NG	5,819.00	4,831.00
tblEnergyUse	Refrigerator	1,251.38	827.00
tblEnergyUse	T24E	467.55	210.90
tblEnergyUse	T24NG	28,628.82	22,665.25
tblFireplaces	NumberGas	0.85	2.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberPropane	0.00	1.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.50	3.00
tblGrading	MaterialExported	0.00	16,529.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53

tblLandUse	Population	3.00	4.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	100.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	365.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	2,066.00	1,181.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	19,454.00
tblWater	IndoorWaterUseRate	65,154.03	130,308.03
tblWater	OutdoorWaterUseRate	41,075.36	82,150.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1736	1.8156	1.2185	2.5400e-003	0.2902	0.0885	0.3787	0.1538	0.0824	0.2363	0.0000	226.8703	226.8703	0.0500	0.0000	228.1201
2021	0.2347	1.6782	1.6369	2.6600e-003	2.4100e-003	0.0924	0.0948	6.4000e-004	0.0870	0.0876	0.0000	228.9753	228.9753	0.0546	0.0000	230.3413

Maximum	0.2347	1.8156	1.6369	2.6600e-003	0.2902	0.0924	0.3787	0.1538	0.0870	0.2363	0.0000	228.9753	228.9753	0.0546	0.0000	230.3413
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### 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					
2020	0.1736	1.8156	1.2185	2.5400e-003	0.1120	0.0885	0.2005	0.0584	0.0824	0.1408	0.0000	226.8701	226.8701	0.0500	0.0000	228.1199
2021	0.2347	1.6782	1.6369	2.6600e-003	1.4500e-003	0.0924	0.0939	4.0000e-004	0.0870	0.0874	0.0000	228.9750	228.9750	0.0546	0.0000	230.3410
Maximum	0.2347	1.8156	1.6369	2.6600e-003	0.1120	0.0924	0.2005	0.0584	0.0870	0.1408	0.0000	228.9750	228.9750	0.0546	0.0000	230.3410

	ROG	NOx	CO	SO2	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	61.21	0.00	37.83	61.94	0.00	29.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2020	9-30-2020	1.2803	1.2803
2	10-1-2020	12-31-2020	0.7001	0.7001
3	1-1-2021	3-31-2021	0.6214	0.6214
4	4-1-2021	6-30-2021	0.6283	0.6283
5	7-1-2021	9-30-2021	0.6647	0.6647
		Highest	1.2803	1.2803

## 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
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Category	tons/yr										MT/yr					
Area	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
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	17.4943	17.4943	4.1000e-004	1.1000e-004	17.5358
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Stationary	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
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	0.0413	2.6044	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>	<b>0.1548</b>	<b>0.1029</b>	<b>0.2283</b>	<b>4.1000e-004</b>	<b>0.0122</b>	<b>0.0136</b>	<b>0.0258</b>	<b>3.2800e-003</b>	<b>0.0136</b>	<b>0.0168</b>	<b>1.1602</b>	<b>48.8225</b>	<b>49.9826</b>	<b>0.0271</b>	<b>3.2000e-004</b>	<b>50.7549</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	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
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	17.4943	17.4943	4.1000e-004	1.1000e-004	17.5358
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Stationary	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
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	0.0413	2.6044	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>	<b>0.1548</b>	<b>0.1029</b>	<b>0.2283</b>	<b>4.1000e-004</b>	<b>0.0122</b>	<b>0.0136</b>	<b>0.0258</b>	<b>3.2800e-003</b>	<b>0.0136</b>	<b>0.0168</b>	<b>1.1602</b>	<b>48.8225</b>	<b>49.9826</b>	<b>0.0271</b>	<b>3.2000e-004</b>	<b>50.7549</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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### 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	7/1/2020	7/31/2020	5	23	
2	Grading	Grading	8/1/2020	8/31/2020	5	21	
3	Building Construction	Building Construction	9/1/2020	8/31/2021	5	261	
4	Paving	Paving	9/1/2021	9/30/2021	5	22	
5	Architectural Coating	Architectural Coating	7/1/2021	9/30/2021	5	66	

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	1,181.00	14.70	6.90	25.00	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 - 2020

#### Unmitigated Construction On-Site

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

Fugitive Dust					0.2078	0.0000	0.2078	0.1142	0.0000	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4453	38.4453	0.0124	0.0000	38.7561
<b>Total</b>	<b>0.0469</b>	<b>0.4878</b>	<b>0.2474</b>	<b>4.4000e-004</b>	<b>0.2078</b>	<b>0.0253</b>	<b>0.2330</b>	<b>0.1142</b>	<b>0.0233</b>	<b>0.1375</b>	<b>0.0000</b>	<b>38.4453</b>	<b>38.4453</b>	<b>0.0124</b>	<b>0.0000</b>	<b>38.7561</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	9.6000e-004	7.7000e-004	8.5200e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.1142	2.1142	7.0000e-005	0.0000	2.1159
<b>Total</b>	<b>9.6000e-004</b>	<b>7.7000e-004</b>	<b>8.5200e-003</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>6.0000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.1142</b>	<b>2.1142</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1159</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					0.0770	0.0000	0.0770	0.0423	0.0000	0.0423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4452	38.4452	0.0124	0.0000	38.7561
<b>Total</b>	<b>0.0469</b>	<b>0.4878</b>	<b>0.2474</b>	<b>4.4000e-004</b>	<b>0.0770</b>	<b>0.0253</b>	<b>0.1023</b>	<b>0.0423</b>	<b>0.0233</b>	<b>0.0656</b>	<b>0.0000</b>	<b>38.4452</b>	<b>38.4452</b>	<b>0.0124</b>	<b>0.0000</b>	<b>38.7561</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	9.6000e-004	7.7000e-004	8.5200e-003	2.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.8000e-004	2.0000e-005	4.0000e-004	0.0000	2.1142	2.1142	7.0000e-005	0.0000	2.1159
<b>Total</b>	<b>9.6000e-004</b>	<b>7.7000e-004</b>	<b>8.5200e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>2.0000e-005</b>	<b>1.3800e-003</b>	<b>3.8000e-004</b>	<b>2.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.1142</b>	<b>2.1142</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1159</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0351	0.0000	0.0351	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.2771	0.1686	3.1000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	27.3617	27.3617	8.8500e-003	0.0000	27.5829
<b>Total</b>	<b>0.0255</b>	<b>0.2771</b>	<b>0.1686</b>	<b>3.1000e-004</b>	<b>0.0658</b>	<b>0.0134</b>	<b>0.0791</b>	<b>0.0351</b>	<b>0.0123</b>	<b>0.0474</b>	<b>0.0000</b>	<b>27.3617</b>	<b>27.3617</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>27.5829</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	7.3000e-004	5.9000e-004	6.4800e-003	2.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.6086	1.6086	5.0000e-005	0.0000	1.6099
<b>Total</b>	<b>6.9800e-003</b>	<b>0.2058</b>	<b>0.0527</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>6.8000e-004</b>	<b>0.0100</b>	<b>2.7000e-003</b>	<b>6.6000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>57.0408</b>	<b>57.0408</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>57.1353</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	tons/yr										MT/yr					
Off-Road	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9084	101.9084	0.0249	0.0000	102.5299
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9084</b>	<b>101.9084</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5299</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

	ROG	NOx	CO	SO2	Fugitive 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	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9083	101.9083	0.0249	0.0000	102.5298
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9083</b>	<b>101.9083</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5298</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	0.0000	0.0000	0.0000	0.0000	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>

**3.4 Building Construction - 2021**

**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	0.1644	1.5079	1.4338	2.3300e-003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3662	200.3662	0.0483	0.0000	201.5747
<b>Total</b>	<b>0.1644</b>	<b>1.5079</b>	<b>1.4338</b>	<b>2.3300e-003</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0780</b>	<b>0.0780</b>	<b>0.0000</b>	<b>200.3662</b>	<b>200.3662</b>	<b>0.0483</b>	<b>0.0000</b>	<b>201.5747</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**

	ROG	NOx	CO	SO2	Fugitive 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	0.1644	1.5079	1.4338	2.3300e-003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3660	200.3660	0.0483	0.0000	201.5745
<b>Total</b>	<b>0.1644</b>	<b>1.5079</b>	<b>1.4338</b>	<b>2.3300e-003</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0780</b>	<b>0.0780</b>	<b>0.0000</b>	<b>200.3660</b>	<b>200.3660</b>	<b>0.0483</b>	<b>0.0000</b>	<b>201.5745</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	0.0000	0.0000	0.0000	0.0000	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 - 2021**

**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	0.0120	0.1192	0.1349	2.1000e-004		6.3700e-003	6.3700e-003		5.8800e-003	5.8800e-003	0.0000	18.0077	18.0077	5.6600e-003	0.0000	18.1491
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>0.0120</b>	<b>0.1192</b>	<b>0.1349</b>	<b>2.1000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>5.8800e-003</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>18.0077</b>	<b>18.0077</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1491</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	1.4500e-003	2.0000e-005	1.4700e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>9.5000e-004</b>	<b>7.4000e-004</b>	<b>8.3200e-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>2.1756</b>	<b>2.1756</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1772</b>

### 3.6 Architectural Coating - 2021

#### 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	7.2200e-003	0.0504	0.0600	1.0000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
<b>Total</b>	<b>0.0573</b>	<b>0.0504</b>	<b>0.0600</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.4402</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



	ROG	NOx	CO	SO2	Fugitive 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	7.2200e-003	0.0504	0.0600	1.0000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
<b>Total</b>	<b>0.0573</b>	<b>0.0504</b>	<b>0.0600</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.4402</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	0.0000	0.0000	0.0000	0.0000	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>

**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	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Unmitigated	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675

#### 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	0.547192	0.045172	0.202742	0.121516	0.016142	0.006142	0.019742	0.029942	0.002472	0.002272	0.005072	0.000682	0.000892

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 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	16.0270	16.0270	3.8000e-004	8.0000e-005	16.0598
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.0270	16.0270	3.8000e-004	8.0000e-005	16.0598
NaturalGas 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
NaturalGas 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 - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	27496.2	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	tons/yr									MT/yr						
Single Family Housing	27496.2	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	28775.7	16.0270	3.8000e-004	8.0000e-005	16.0598
<b>Total</b>		<b>16.0270</b>	<b>3.8000e-004</b>	<b>8.0000e-005</b>	<b>16.0598</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	28775.7	16.0270	3.8000e-004	8.0000e-005	16.0598
<b>Total</b>		<b>16.0270</b>	<b>3.8000e-004</b>	<b>8.0000e-005</b>	<b>16.0598</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
Unmitigated	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919

### 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	1.4000e-003	0.0647	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.7591	1.5450	1.0000e-005	1.0000e-004	1.5747
Landscaping	3.1000e-004	1.2000e-004	0.0103	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>0.1216</b>	<b>1.5200e-003</b>	<b>0.0751</b>	<b>1.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>	<b>0.7859</b>	<b>0.7760</b>	<b>1.5619</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.5919</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	
Consumer Products	0.0578						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0584	1.4000e-003	0.0647	1.0000e-004			8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.7591	1.5450	1.0000e-005	1.0000e-004	1.5747
Landscaping	3.1000e-004	1.2000e-004	0.0103	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>0.1216</b>	<b>1.5200e-003</b>	<b>0.0751</b>	<b>1.0000e-004</b>			<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>	<b>0.7859</b>	<b>0.7760</b>	<b>1.5619</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.5919</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.6457	4.3100e-003	1.1000e-004	2.7871
Unmitigated	2.6457	4.3100e-003	1.1000e-004	2.7871

**7.2 Water by Land Use**

## Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.08215	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>		<b>2.6457</b>	<b>4.3100e-003</b>	<b>1.1000e-004</b>	<b>2.7871</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.08215	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>		<b>2.6457</b>	<b>4.3100e-003</b>	<b>1.1000e-004</b>	<b>2.7871</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3329	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

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
Emergency Generator	1	1	365	100	0.73	Diesel

### 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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## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
<b>Total</b>	<b>0.0300</b>	<b>0.0837</b>	<b>0.1087</b>	<b>1.4000e-004</b>		<b>4.4100e-003</b>	<b>4.4100e-003</b>		<b>4.4100e-003</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>13.8991</b>	<b>13.8991</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>13.9478</b>

## 11.0 Vegetation



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	3

**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, 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>	2021
<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 - Assumes 14CY per haul truck, transport to landfill 25 miles or less away

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Assumes two natural gas interior fireplaces and one outdoor propane fireplace

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

Energy Use - Uses default electricity use for a single-family home, but includes electricity consumption for two Teslas. This assumes 100kWh per full charge at 120 miles

Water And Wastewater - Assumes twice the indoor and out door water use per year of average homes and twice the electricity intensity to supply water to the

Stationary Sources - Emergency Generators and Fire Pumps - Assumes use of one diesel-powered generator one hour each day

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	23.00
tblEnergyUse	NT24E	5,089.81	26,955.97
tblEnergyUse	NT24NG	5,819.00	4,831.00
tblEnergyUse	Refrigerator	1,251.38	827.00
tblEnergyUse	T24E	467.55	210.90
tblEnergyUse	T24NG	28,628.82	22,665.25
tblFireplaces	NumberGas	0.85	2.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberPropane	0.00	1.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.50	3.00
tblGrading	MaterialExported	0.00	16,529.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53
tblLandUse	Population	3.00	4.00

tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	100.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	365.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	2,066.00	1,181.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	19,454.00
tblWater	IndoorWaterUseRate	65,154.03	130,308.03
tblWater	OutdoorWaterUseRate	41,075.36	82,150.00
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					
2020	4.1593	45.2961	22.3017	0.0854	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	8,903.0897	8,903.0897	1.3210	0.0000	8,936.1143
2021	3.6367	18.9589	18.3928	0.0299	0.2236	1.0527	1.0527	0.0593	0.9954	0.9954	0.0000	2,834.8120	2,834.8120	0.6353	0.0000	2,850.6952
<b>Maximum</b>	<b>4.1593</b>	<b>45.2961</b>	<b>22.3017</b>	<b>0.0854</b>	<b>18.2675</b>	<b>2.1991</b>	<b>20.4666</b>	<b>9.9840</b>	<b>2.0232</b>	<b>12.0072</b>	<b>0.0000</b>	<b>8,903.0897</b>	<b>8,903.0897</b>	<b>1.3210</b>	<b>0.0000</b>	<b>8,936.1143</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					
2020	4.1593	45.2961	22.3017	0.0854	6.8143	2.1991	9.0134	3.7129	2.0232	5.7361	0.0000	8,903.0897	8,903.0897	1.3210	0.0000	8,936.1143
2021	3.6367	18.9589	18.3928	0.0299	0.1342	1.0527	1.0527	0.0373	0.9954	0.9954	0.0000	2,834.8120	2,834.8120	0.6353	0.0000	2,850.6952
<b>Maximum</b>	<b>4.1593</b>	<b>45.2961</b>	<b>22.3017</b>	<b>0.0854</b>	<b>6.8143</b>	<b>2.1991</b>	<b>9.0134</b>	<b>3.7129</b>	<b>2.0232</b>	<b>5.7361</b>	<b>0.0000</b>	<b>8,903.0897</b>	<b>8,903.0897</b>	<b>1.3210</b>	<b>0.0000</b>	<b>8,936.1143</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<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>53.22</b>	<b>62.66</b>	<b>0.00</b>	<b>48.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Energy	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
Mobile	0.0192	0.0905	0.2638	9.1000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		92.5008	92.5008	4.8000e-003		92.6209
Stationary	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
<b>Total</b>	<b>5.2046</b>	<b>0.6688</b>	<b>6.1228</b>	<b>0.0101</b>	<b>0.0720</b>	<b>0.7353</b>	<b>0.8072</b>	<b>0.0193</b>	<b>0.7352</b>	<b>0.7545</b>	<b>69.3056</b>	<b>252.4065</b>	<b>321.7121</b>	<b>0.0181</b>	<b>8.8200e-003</b>	<b>324.7942</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	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Energy	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
Mobile	0.0192	0.0905	0.2638	9.1000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		92.5008	92.5008	4.8000e-003		92.6209
Stationary	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
<b>Total</b>	<b>5.2046</b>	<b>0.6688</b>	<b>6.1228</b>	<b>0.0101</b>	<b>0.0720</b>	<b>0.7353</b>	<b>0.8072</b>	<b>0.0193</b>	<b>0.7352</b>	<b>0.7545</b>	<b>69.3056</b>	<b>252.4065</b>	<b>321.7121</b>	<b>0.0181</b>	<b>8.8200e-003</b>	<b>324.7942</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	7/1/2020	7/31/2020	5	23	
2	Grading	Grading	8/1/2020	8/31/2020	5	21	
3	Building Construction	Building Construction	9/1/2020	8/31/2021	5	261	
4	Paving	Paving	9/1/2021	9/30/2021	5	22	
5	Architectural Coating	Architectural Coating	7/1/2021	9/30/2021	5	66	

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	1,181.00	14.70	6.90	25.00	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 - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</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	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
<b>Total</b>	<b>0.0828</b>	<b>0.0589</b>	<b>0.7881</b>	<b>2.1300e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>		<b>211.7003</b>	<b>211.7003</b>	<b>6.6700e-003</b>		<b>211.8672</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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>6.6936</b>	<b>2.1974</b>	<b>8.8910</b>	<b>3.6793</b>	<b>2.0216</b>	<b>5.7009</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</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	0.0828	0.0589	0.7881	2.1300e-003	0.1207	1.6800e-003	0.1224	0.0336	1.5500e-003	0.0352		211.7003	211.7003	6.6700e-003		211.8672
<b>Total</b>	<b>0.0828</b>	<b>0.0589</b>	<b>0.7881</b>	<b>2.1300e-003</b>	<b>0.1207</b>	<b>1.6800e-003</b>	<b>0.1224</b>	<b>0.0336</b>	<b>1.5500e-003</b>	<b>0.0352</b>		<b>211.7003</b>	<b>211.7003</b>	<b>6.6700e-003</b>		<b>211.8672</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2626	0.0000	6.2626	3.3401	0.0000	3.3401			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.2626</b>	<b>1.2734</b>	<b>7.5360</b>	<b>3.3401</b>	<b>1.1716</b>	<b>4.5116</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</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	0.5903	18.8611	4.3103	0.0540	1.2288	0.0639	1.2927	0.3368	0.0612	0.3980		5,854.1877	5,854.1877	0.3864		5,863.8477
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
<b>Total</b>	<b>0.6593</b>	<b>18.9102</b>	<b>4.9671</b>	<b>0.0558</b>	<b>1.3965</b>	<b>0.0653</b>	<b>1.4618</b>	<b>0.3813</b>	<b>0.0624</b>	<b>0.4437</b>		<b>6,030.6046</b>	<b>6,030.6046</b>	<b>0.3920</b>		<b>6,040.4036</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					2.3203	0.0000	2.3203	1.2375	0.0000	1.2375			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>2.3203</b>	<b>1.2734</b>	<b>3.5937</b>	<b>1.2375</b>	<b>1.1716</b>	<b>2.4090</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</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	0.5903	18.8611	4.3103	0.0540	0.8013	0.0639	0.8652	0.2319	0.0612	0.2930		5,854.1877	5,854.1877	0.3864		5,863.8477
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	0.0690	0.0491	0.6568	1.7700e-003	0.1006	1.4000e-003	0.1020	0.0280	1.2900e-003	0.0293		176.4169	176.4169	5.5600e-003		176.5560
<b>Total</b>	<b>0.6593</b>	<b>18.9102</b>	<b>4.9671</b>	<b>0.0558</b>	<b>0.9019</b>	<b>0.0653</b>	<b>0.9672</b>	<b>0.2599</b>	<b>0.0624</b>	<b>0.3223</b>		<b>6,030.6046</b>	<b>6,030.6046</b>	<b>0.3920</b>		<b>6,040.4036</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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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>

### 3.4 Building Construction - 2021

#### 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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>	<b>0.0000</b>	<b>0.0000</b>
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**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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	0.0000	0.0000	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>

**3.5 Paving - 2021**

**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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
<b>Total</b>	<b>0.0857</b>	<b>0.0589</b>	<b>0.8056</b>	<b>2.2900e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>227.7540</b>	<b>227.7540</b>	<b>6.7100e-003</b>		<b>227.9217</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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	0.0857	0.0589	0.8056	2.2900e-003	0.1342	1.8100e-003	0.1360	0.0373	1.6600e-003	0.0390		227.7540	227.7540	6.7100e-003		227.9217
<b>Total</b>	<b>0.0857</b>	<b>0.0589</b>	<b>0.8056</b>	<b>2.2900e-003</b>	<b>0.1342</b>	<b>1.8100e-003</b>	<b>0.1360</b>	<b>0.0373</b>	<b>1.6600e-003</b>	<b>0.0390</b>		<b>227.7540</b>	<b>227.7540</b>	<b>6.7100e-003</b>		<b>227.9217</b>

**3.6 Architectural Coating - 2021**

**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	1.5169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>1.7358</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



**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	1.5169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>1.7358</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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Category	lb/day										lb/day					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	0.0192	0.0905	0.2638	9.1000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		92.5008	92.5008	4.8000e-003		92.6209
Unmitigated	0.0192	0.0905	0.2638	9.1000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		92.5008	92.5008	4.8000e-003		92.6209

#### 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
<b>Total</b>	<b>9.52</b>	<b>9.91</b>	<b>8.62</b>	<b>32,263</b>	<b>32,263</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	40.00	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	0.54719	0.04517	0.20274	0.12151	0.01614	0.00614	0.01974	0.02994	0.00247	0.00227	0.00507	0.00068	0.00089

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 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
NaturalGas 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
NaturalGas 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

Land Use	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
	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**

	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	0.0753322	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	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Unmitigated	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123

## 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	4.6738	0.1118	5.1779	8.3700e-003		0.7094	0.7094		0.7094	0.7094	69.3056	66.9431	136.2487	1.2100e-003	8.6600e-003	138.8602
Landscaping	2.5100e-003	9.5000e-004	0.0827	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>5.0205</b>	<b>0.1127</b>	<b>5.2606</b>	<b>8.3700e-003</b>		<b>0.7098</b>	<b>0.7098</b>		<b>0.7098</b>	<b>0.7098</b>	<b>69.3056</b>	<b>67.0917</b>	<b>136.3973</b>	<b>1.3500e-003</b>	<b>8.6600e-003</b>	<b>139.0123</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	4.6738	0.1118	5.1779	8.3700e-003		0.7094	0.7094		0.7094	0.7094	69.3056	66.9431	136.2487	1.2100e-003	8.6600e-003	138.8602
Landscaping	2.5100e-003	9.5000e-004	0.0827	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>5.0205</b>	<b>0.1127</b>	<b>5.2606</b>	<b>8.3700e-003</b>		<b>0.7098</b>	<b>0.7098</b>		<b>0.7098</b>	<b>0.7098</b>	<b>69.3056</b>	<b>67.0917</b>	<b>136.3973</b>	<b>1.3500e-003</b>	<b>8.6600e-003</b>	<b>139.0123</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
Emergency Generator	1	1	365	100	0.73	Diesel

### 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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## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457

Total	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
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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>	2021
<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 - Assumes 14CY per haul truck, transport to landfill 25 miles or less away



Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Assumes two natural gas interior fireplaces and one outdoor propane fireplace

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

Energy Use - Uses default electricity use for a single-family home, but includes electricity consumption for two Teslas. This assumes 100kWh per full charge at 200 miles

Water And Wastewater - Assumes twice the indoor and out door water use per year of average homes and twice the electricity intensity to supply water to the

Stationary Sources - Emergency Generators and Fire Pumps - Assumes use of one diesel-powered generator one hour each day

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	23.00
tblEnergyUse	NT24E	5,089.81	26,955.97
tblEnergyUse	NT24NG	5,819.00	4,831.00
tblEnergyUse	Refrigerator	1,251.38	827.00
tblEnergyUse	T24E	467.55	210.90
tblEnergyUse	T24NG	28,628.82	22,665.25
tblFireplaces	NumberGas	0.85	2.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberPropane	0.00	1.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.50	3.00
tblGrading	MaterialExported	0.00	16,529.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53

tblLandUse	Population	3.00	4.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	100.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	365.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	2,066.00	1,181.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	19,454.00
tblWater	IndoorWaterUseRate	65,154.03	130,308.03
tblWater	OutdoorWaterUseRate	41,075.36	82,150.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1736	1.8156	1.2185	2.5400e-003	0.2902	0.0885	0.3787	0.1538	0.0824	0.2363	0.0000	226.8703	226.8703	0.0500	0.0000	228.1201
2021	0.2347	1.6782	1.6369	2.6600e-003	2.4100e-003	0.0924	0.0948	6.4000e-004	0.0870	0.0876	0.0000	228.9753	228.9753	0.0546	0.0000	230.3413

Maximum	0.2347	1.8156	1.6369	2.6600e-003	0.2902	0.0924	0.3787	0.1538	0.0870	0.2363	0.0000	228.9753	228.9753	0.0546	0.0000	230.3413
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### 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					
2020	0.1736	1.8156	1.2185	2.5400e-003	0.1120	0.0885	0.2005	0.0584	0.0824	0.1408	0.0000	226.8701	226.8701	0.0500	0.0000	228.1199
2021	0.2347	1.6782	1.6369	2.6600e-003	1.4500e-003	0.0924	0.0939	4.0000e-004	0.0870	0.0874	0.0000	228.9750	228.9750	0.0546	0.0000	230.3410
Maximum	0.2347	1.8156	1.6369	2.6600e-003	0.1120	0.0924	0.2005	0.0584	0.0870	0.1408	0.0000	228.9750	228.9750	0.0546	0.0000	230.3410

	ROG	NOx	CO	SO2	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	61.21	0.00	37.83	61.94	0.00	29.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2020	9-30-2020	1.2803	1.2803
2	10-1-2020	12-31-2020	0.7001	0.7001
3	1-1-2021	3-31-2021	0.6214	0.6214
4	4-1-2021	6-30-2021	0.6283	0.6283
5	7-1-2021	9-30-2021	0.6647	0.6647
		Highest	1.2803	1.2803

## 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
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Category	tons/yr										MT/yr					
Area	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
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	17.4943	17.4943	4.1000e-004	1.1000e-004	17.5358
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Stationary	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
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	0.0413	2.6044	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>	<b>0.1548</b>	<b>0.1029</b>	<b>0.2283</b>	<b>4.1000e-004</b>	<b>0.0122</b>	<b>0.0136</b>	<b>0.0258</b>	<b>3.2800e-003</b>	<b>0.0136</b>	<b>0.0168</b>	<b>1.1602</b>	<b>48.8225</b>	<b>49.9826</b>	<b>0.0271</b>	<b>3.2000e-004</b>	<b>50.7549</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	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
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	17.4943	17.4943	4.1000e-004	1.1000e-004	17.5358
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Stationary	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
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	0.0413	2.6044	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>	<b>0.1548</b>	<b>0.1029</b>	<b>0.2283</b>	<b>4.1000e-004</b>	<b>0.0122</b>	<b>0.0136</b>	<b>0.0258</b>	<b>3.2800e-003</b>	<b>0.0136</b>	<b>0.0168</b>	<b>1.1602</b>	<b>48.8225</b>	<b>49.9826</b>	<b>0.0271</b>	<b>3.2000e-004</b>	<b>50.7549</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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### 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	7/1/2020	7/31/2020	5	23	
2	Grading	Grading	8/1/2020	8/31/2020	5	21	
3	Building Construction	Building Construction	9/1/2020	8/31/2021	5	261	
4	Paving	Paving	9/1/2021	9/30/2021	5	22	
5	Architectural Coating	Architectural Coating	7/1/2021	9/30/2021	5	66	

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	1,181.00	14.70	6.90	25.00	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 - 2020

#### Unmitigated Construction On-Site

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

Fugitive Dust					0.2078	0.0000	0.2078	0.1142	0.0000	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4453	38.4453	0.0124	0.0000	38.7561
<b>Total</b>	<b>0.0469</b>	<b>0.4878</b>	<b>0.2474</b>	<b>4.4000e-004</b>	<b>0.2078</b>	<b>0.0253</b>	<b>0.2330</b>	<b>0.1142</b>	<b>0.0233</b>	<b>0.1375</b>	<b>0.0000</b>	<b>38.4453</b>	<b>38.4453</b>	<b>0.0124</b>	<b>0.0000</b>	<b>38.7561</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	9.6000e-004	7.7000e-004	8.5200e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.1142	2.1142	7.0000e-005	0.0000	2.1159
<b>Total</b>	<b>9.6000e-004</b>	<b>7.7000e-004</b>	<b>8.5200e-003</b>	<b>2.0000e-005</b>	<b>2.2700e-003</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>6.0000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.1142</b>	<b>2.1142</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1159</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					0.0770	0.0000	0.0770	0.0423	0.0000	0.0423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4452	38.4452	0.0124	0.0000	38.7561
<b>Total</b>	<b>0.0469</b>	<b>0.4878</b>	<b>0.2474</b>	<b>4.4000e-004</b>	<b>0.0770</b>	<b>0.0253</b>	<b>0.1023</b>	<b>0.0423</b>	<b>0.0233</b>	<b>0.0656</b>	<b>0.0000</b>	<b>38.4452</b>	<b>38.4452</b>	<b>0.0124</b>	<b>0.0000</b>	<b>38.7561</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	9.6000e-004	7.7000e-004	8.5200e-003	2.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.8000e-004	2.0000e-005	4.0000e-004	0.0000	2.1142	2.1142	7.0000e-005	0.0000	2.1159
<b>Total</b>	<b>9.6000e-004</b>	<b>7.7000e-004</b>	<b>8.5200e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>2.0000e-005</b>	<b>1.3800e-003</b>	<b>3.8000e-004</b>	<b>2.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.1142</b>	<b>2.1142</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1159</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0658	0.0000	0.0658	0.0351	0.0000	0.0351	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.2771	0.1686	3.1000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	27.3617	27.3617	8.8500e-003	0.0000	27.5829
<b>Total</b>	<b>0.0255</b>	<b>0.2771</b>	<b>0.1686</b>	<b>3.1000e-004</b>	<b>0.0658</b>	<b>0.0134</b>	<b>0.0791</b>	<b>0.0351</b>	<b>0.0123</b>	<b>0.0474</b>	<b>0.0000</b>	<b>27.3617</b>	<b>27.3617</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>27.5829</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	7.3000e-004	5.9000e-004	6.4800e-003	2.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.6086	1.6086	5.0000e-005	0.0000	1.6099
<b>Total</b>	<b>6.9800e-003</b>	<b>0.2058</b>	<b>0.0527</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>6.8000e-004</b>	<b>0.0100</b>	<b>2.7000e-003</b>	<b>6.6000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>57.0408</b>	<b>57.0408</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>57.1353</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	tons/yr										MT/yr					
Off-Road	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9084	101.9084	0.0249	0.0000	102.5299
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9084</b>	<b>101.9084</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5299</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

	ROG	NOx	CO	SO2	Fugitive 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	0.0933	0.8442	0.7413	1.1800e-003		0.0492	0.0492		0.0462	0.0462	0.0000	101.9083	101.9083	0.0249	0.0000	102.5298
<b>Total</b>	<b>0.0933</b>	<b>0.8442</b>	<b>0.7413</b>	<b>1.1800e-003</b>		<b>0.0492</b>	<b>0.0492</b>		<b>0.0462</b>	<b>0.0462</b>	<b>0.0000</b>	<b>101.9083</b>	<b>101.9083</b>	<b>0.0249</b>	<b>0.0000</b>	<b>102.5298</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	0.0000	0.0000	0.0000	0.0000	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>

**3.4 Building Construction - 2021**

**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	0.1644	1.5079	1.4338	2.3300e-003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3662	200.3662	0.0483	0.0000	201.5747
<b>Total</b>	<b>0.1644</b>	<b>1.5079</b>	<b>1.4338</b>	<b>2.3300e-003</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0780</b>	<b>0.0780</b>	<b>0.0000</b>	<b>200.3662</b>	<b>200.3662</b>	<b>0.0483</b>	<b>0.0000</b>	<b>201.5747</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**

	ROG	NOx	CO	SO2	Fugitive 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	0.1644	1.5079	1.4338	2.3300e-003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3660	200.3660	0.0483	0.0000	201.5745
<b>Total</b>	<b>0.1644</b>	<b>1.5079</b>	<b>1.4338</b>	<b>2.3300e-003</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0780</b>	<b>0.0780</b>	<b>0.0000</b>	<b>200.3660</b>	<b>200.3660</b>	<b>0.0483</b>	<b>0.0000</b>	<b>201.5745</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	0.0000	0.0000	0.0000	0.0000	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 - 2021**

**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	0.0120	0.1192	0.1349	2.1000e-004		6.3700e-003	6.3700e-003		5.8800e-003	5.8800e-003	0.0000	18.0077	18.0077	5.6600e-003	0.0000	18.1491
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>0.0120</b>	<b>0.1192</b>	<b>0.1349</b>	<b>2.1000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>5.8800e-003</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>18.0077</b>	<b>18.0077</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>18.1491</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	1.4500e-003	2.0000e-005	1.4700e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>9.5000e-004</b>	<b>7.4000e-004</b>	<b>8.3200e-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>2.1756</b>	<b>2.1756</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1772</b>

### 3.6 Architectural Coating - 2021

#### 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	7.2200e-003	0.0504	0.0600	1.0000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
<b>Total</b>	<b>0.0573</b>	<b>0.0504</b>	<b>0.0600</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.4402</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

	ROG	NOx	CO	SO2	Fugitive 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	7.2200e-003	0.0504	0.0600	1.0000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	8.4257	8.4257	5.8000e-004	0.0000	8.4402
<b>Total</b>	<b>0.0573</b>	<b>0.0504</b>	<b>0.0600</b>	<b>1.0000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.4402</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	0.0000	0.0000	0.0000	0.0000	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>

**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	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675
Unmitigated	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0122	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4000e-003	0.0000	14.0488	14.0488	7.5000e-004	0.0000	14.0675

#### 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	0.547192	0.045172	0.202742	0.121516	0.016142	0.006142	0.019742	0.029942	0.002472	0.002272	0.005072	0.000682	0.000892

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 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	16.0270	16.0270	3.8000e-004	8.0000e-005	16.0598
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.0270	16.0270	3.8000e-004	8.0000e-005	16.0598
NaturalGas 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
NaturalGas 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 - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	27496.2	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	tons/yr									MT/yr						
Single Family Housing	27496.2	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	28775.7	16.0270	3.8000e-004	8.0000e-005	16.0598
<b>Total</b>		<b>16.0270</b>	<b>3.8000e-004</b>	<b>8.0000e-005</b>	<b>16.0598</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	28775.7	16.0270	3.8000e-004	8.0000e-005	16.0598
<b>Total</b>		<b>16.0270</b>	<b>3.8000e-004</b>	<b>8.0000e-005</b>	<b>16.0598</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919
Unmitigated	0.1216	1.5200e-003	0.0751	1.1000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.7859	0.7760	1.5619	3.0000e-005	1.0000e-004	1.5919

### 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	1.4000e-003	0.0647	1.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.7591	1.5450	1.0000e-005	1.0000e-004	1.5747
Landscaping	3.1000e-004	1.2000e-004	0.0103	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>0.1216</b>	<b>1.5200e-003</b>	<b>0.0751</b>	<b>1.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>	<b>0.7859</b>	<b>0.7760</b>	<b>1.5619</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.5919</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	
Consumer Products	0.0578						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0584	1.4000e-003	0.0647	1.0000e-004			8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.7859	0.7591	1.5450	1.0000e-005	1.0000e-004	1.5747
Landscaping	3.1000e-004	1.2000e-004	0.0103	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>0.1216</b>	<b>1.5200e-003</b>	<b>0.0751</b>	<b>1.0000e-004</b>			<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>	<b>0.7859</b>	<b>0.7760</b>	<b>1.5619</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.5919</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.6457	4.3100e-003	1.1000e-004	2.7871
Unmitigated	2.6457	4.3100e-003	1.1000e-004	2.7871

**7.2 Water by Land Use**

## Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.08215	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>		<b>2.6457</b>	<b>4.3100e-003</b>	<b>1.1000e-004</b>	<b>2.7871</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.08215	2.6457	4.3100e-003	1.1000e-004	2.7871
<b>Total</b>		<b>2.6457</b>	<b>4.3100e-003</b>	<b>1.1000e-004</b>	<b>2.7871</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3329	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

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
Emergency Generator	1	1	365	100	0.73	Diesel

### 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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## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel	0.0300	0.0837	0.1087	1.4000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	13.8991	13.8991	1.9500e-003	0.0000	13.9478
<b>Total</b>	<b>0.0300</b>	<b>0.0837</b>	<b>0.1087</b>	<b>1.4000e-004</b>		<b>4.4100e-003</b>	<b>4.4100e-003</b>		<b>4.4100e-003</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>13.8991</b>	<b>13.8991</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>13.9478</b>

## 11.0 Vegetation





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>	2021
<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 - Assumes 14CY per haul truck, transport to landfill 25 miles or less away

Demolition -

Grading - Consultant assumption

Vehicle Trips - Default ITE trip rates

Woodstoves - Assumes two natural gas interior fireplaces and one outdoor propane fireplace

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

Energy Use - Uses default electricity use for a single-family home, but includes electricity consumption for two Teslas. This assumes 100kWh per full charge at 120kWh

Water And Wastewater - Assumes twice the indoor and out door water use per year of average homes and twice the electricity intensity to supply water to the

Stationary Sources - Emergency Generators and Fire Pumps - Assumes use of one diesel-powered generator one hour each day

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	66.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	23.00
tblEnergyUse	NT24E	5,089.81	26,955.97
tblEnergyUse	NT24NG	5,819.00	4,831.00
tblEnergyUse	Refrigerator	1,251.38	827.00
tblEnergyUse	T24E	467.55	210.90
tblEnergyUse	T24NG	28,628.82	22,665.25
tblFireplaces	NumberGas	0.85	2.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberPropane	0.00	1.00
tblFireplaces	NumberWood	0.05	1.00
tblGrading	AcresOfGrading	10.50	3.00
tblGrading	MaterialExported	0.00	16,529.00
tblLandUse	LandUseSquareFeet	1,800.00	16,000.00
tblLandUse	LotAcreage	0.32	4.53
tblLandUse	Population	3.00	4.00

tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	100.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	365.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	2,066.00	1,181.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	19,454.00
tblWater	IndoorWaterUseRate	65,154.03	130,308.03
tblWater	OutdoorWaterUseRate	41,075.36	82,150.00
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					
2020	4.1685	45.6158	22.2354	0.0846	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	8,809.9035	8,809.9035	1.3325	0.0000	8,843.2169
2021	3.6367	18.9589	18.3928	0.0299	0.2236	1.0527	1.0527	0.0593	0.9954	0.9954	0.0000	2,834.8120	2,834.8120	0.6353	0.0000	2,850.6952
<b>Maximum</b>	<b>4.1685</b>	<b>45.6158</b>	<b>22.2354</b>	<b>0.0846</b>	<b>18.2675</b>	<b>2.1991</b>	<b>20.4666</b>	<b>9.9840</b>	<b>2.0232</b>	<b>12.0072</b>	<b>0.0000</b>	<b>8,809.9035</b>	<b>8,809.9035</b>	<b>1.3325</b>	<b>0.0000</b>	<b>8,843.2169</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					
2020	4.1685	45.6158	22.2354	0.0846	6.8143	2.1991	9.0134	3.7129	2.0232	5.7361	0.0000	8,809.9035	8,809.9035	1.3325	0.0000	8,843.2169
2021	3.6367	18.9589	18.3928	0.0299	0.1342	1.0527	1.0527	0.0373	0.9954	0.9954	0.0000	2,834.8120	2,834.8120	0.6353	0.0000	2,850.6952
<b>Maximum</b>	<b>4.1685</b>	<b>45.6158</b>	<b>22.2354</b>	<b>0.0846</b>	<b>6.8143</b>	<b>2.1991</b>	<b>9.0134</b>	<b>3.7129</b>	<b>2.0232</b>	<b>5.7361</b>	<b>0.0000</b>	<b>8,809.9035</b>	<b>8,809.9035</b>	<b>1.3325</b>	<b>0.0000</b>	<b>8,843.2169</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>53.22</b>	<b>62.66</b>	<b>0.00</b>	<b>48.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Energy	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
Mobile	0.0187	0.0929	0.2503	8.7000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		88.0243	88.0243	4.7800e-003		88.1439
Stationary	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
<b>Total</b>	<b>5.2041</b>	<b>0.6712</b>	<b>6.1093</b>	<b>0.0101</b>	<b>0.0720</b>	<b>0.7353</b>	<b>0.8072</b>	<b>0.0193</b>	<b>0.7352</b>	<b>0.7545</b>	<b>69.3056</b>	<b>247.9300</b>	<b>317.2356</b>	<b>0.0181</b>	<b>8.8200e-003</b>	<b>320.3171</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	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Energy	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
Mobile	0.0187	0.0929	0.2503	8.7000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		88.0243	88.0243	4.7800e-003		88.1439
Stationary	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
<b>Total</b>	<b>5.2041</b>	<b>0.6712</b>	<b>6.1093</b>	<b>0.0101</b>	<b>0.0720</b>	<b>0.7353</b>	<b>0.8072</b>	<b>0.0193</b>	<b>0.7352</b>	<b>0.7545</b>	<b>69.3056</b>	<b>247.9300</b>	<b>317.2356</b>	<b>0.0181</b>	<b>8.8200e-003</b>	<b>320.3171</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	7/1/2020	7/31/2020	5	23	
2	Grading	Grading	8/1/2020	8/31/2020	5	21	
3	Building Construction	Building Construction	9/1/2020	8/31/2021	5	261	
4	Paving	Paving	9/1/2021	9/30/2021	5	22	
5	Architectural Coating	Architectural Coating	7/1/2021	9/30/2021	5	66	

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	1,181.00	14.70	6.90	25.00	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 - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</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	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
<b>Total</b>	<b>0.0920</b>	<b>0.0652</b>	<b>0.7218</b>	<b>2.0000e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>		<b>199.3357</b>	<b>199.3357</b>	<b>6.2800e-003</b>		<b>199.4927</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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>6.6936</b>	<b>2.1974</b>	<b>8.8910</b>	<b>3.6793</b>	<b>2.0216</b>	<b>5.7009</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</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	0.0652	0.7218	2.0000e-003	0.1207	1.6800e-003	0.1224	0.0336	1.5500e-003	0.0352		199.3357	199.3357	6.2800e-003		199.4927
<b>Total</b>	<b>0.0920</b>	<b>0.0652</b>	<b>0.7218</b>	<b>2.0000e-003</b>	<b>0.1207</b>	<b>1.6800e-003</b>	<b>0.1224</b>	<b>0.0336</b>	<b>1.5500e-003</b>	<b>0.0352</b>		<b>199.3357</b>	<b>199.3357</b>	<b>6.2800e-003</b>		<b>199.4927</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2626	0.0000	6.2626	3.3401	0.0000	3.3401			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.2626</b>	<b>1.2734</b>	<b>7.5360</b>	<b>3.3401</b>	<b>1.1716</b>	<b>4.5116</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</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	0.6022	19.1755	4.5300	0.0533	1.2288	0.0647	1.2935	0.3368	0.0619	0.3987		5,771.3054	5,771.3054	0.3983		5,781.2624
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
<b>Total</b>	<b>0.6788</b>	<b>19.2299</b>	<b>5.1316</b>	<b>0.0549</b>	<b>1.3965</b>	<b>0.0661</b>	<b>1.4626</b>	<b>0.3813</b>	<b>0.0632</b>	<b>0.4445</b>		<b>5,937.4184</b>	<b>5,937.4184</b>	<b>0.4035</b>		<b>5,947.5063</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					2.3203	0.0000	2.3203	1.2375	0.0000	1.2375			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>2.3203</b>	<b>1.2734</b>	<b>3.5937</b>	<b>1.2375</b>	<b>1.1716</b>	<b>2.4090</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</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	0.6022	19.1755	4.5300	0.0533	0.8013	0.0647	0.8660	0.2319	0.0619	0.2938		5,771.3054	5,771.3054	0.3983		5,781.2624
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	0.0767	0.0544	0.6015	1.6700e-003	0.1006	1.4000e-003	0.1020	0.0280	1.2900e-003	0.0293		166.1131	166.1131	5.2400e-003		166.2440
<b>Total</b>	<b>0.6788</b>	<b>19.2299</b>	<b>5.1316</b>	<b>0.0549</b>	<b>0.9019</b>	<b>0.0661</b>	<b>0.9680</b>	<b>0.2599</b>	<b>0.0632</b>	<b>0.3231</b>		<b>5,937.4184</b>	<b>5,937.4184</b>	<b>0.4035</b>		<b>5,947.5063</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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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>

### 3.4 Building Construction - 2021

#### 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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>	<b>0.0000</b>	<b>0.0000</b>
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**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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	0.0000	0.0000	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>

**3.5 Paving - 2021**

**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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
<b>Total</b>	<b>0.0954</b>	<b>0.0652</b>	<b>0.7365</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>214.4502</b>	<b>214.4502</b>	<b>6.3100e-003</b>		<b>214.6080</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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	0.0954	0.0652	0.7365	2.1500e-003	0.1342	1.8100e-003	0.1360	0.0373	1.6600e-003	0.0390		214.4502	214.4502	6.3100e-003		214.6080
<b>Total</b>	<b>0.0954</b>	<b>0.0652</b>	<b>0.7365</b>	<b>2.1500e-003</b>	<b>0.1342</b>	<b>1.8100e-003</b>	<b>0.1360</b>	<b>0.0373</b>	<b>1.6600e-003</b>	<b>0.0390</b>		<b>214.4502</b>	<b>214.4502</b>	<b>6.3100e-003</b>		<b>214.6080</b>

**3.6 Architectural Coating - 2021**

**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	1.5169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>1.7358</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



**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	1.5169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>1.7358</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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Category	lb/day										lb/day					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	0.0187	0.0929	0.2503	8.7000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		88.0243	88.0243	4.7800e-003		88.1439
Unmitigated	0.0187	0.0929	0.2503	8.7000e-004	0.0720	7.5000e-004	0.0727	0.0193	7.0000e-004	0.0200		88.0243	88.0243	4.7800e-003		88.1439

#### 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
<b>Total</b>	<b>9.52</b>	<b>9.91</b>	<b>8.62</b>	<b>32,263</b>	<b>32,263</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	40.00	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	0.547192	0.045172	0.202742	0.121512	0.016142	0.006142	0.019742	0.029942	0.002472	0.002272	0.005072	0.000682	0.000892

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 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
NaturalGas 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
NaturalGas 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

Land Use	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
	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**

	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	0.0753322	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	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123
Unmitigated	5.0205	0.1127	5.2606	8.3700e-003		0.7098	0.7098		0.7098	0.7098	69.3056	67.0917	136.3973	1.3500e-003	8.6600e-003	139.0123

## 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	4.6738	0.1118	5.1779	8.3700e-003		0.7094	0.7094		0.7094	0.7094	69.3056	66.9431	136.2487	1.2100e-003	8.6600e-003	138.8602
Landscaping	2.5100e-003	9.5000e-004	0.0827	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>5.0205</b>	<b>0.1127</b>	<b>5.2606</b>	<b>8.3700e-003</b>		<b>0.7098</b>	<b>0.7098</b>		<b>0.7098</b>	<b>0.7098</b>	<b>69.3056</b>	<b>67.0917</b>	<b>136.3973</b>	<b>1.3500e-003</b>	<b>8.6600e-003</b>	<b>139.0123</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	4.6738	0.1118	5.1779	8.3700e-003		0.7094	0.7094		0.7094	0.7094	69.3056	66.9431	136.2487	1.2100e-003	8.6600e-003	138.8602
Landscaping	2.5100e-003	9.5000e-004	0.0827	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>5.0205</b>	<b>0.1127</b>	<b>5.2606</b>	<b>8.3700e-003</b>		<b>0.7098</b>	<b>0.7098</b>		<b>0.7098</b>	<b>0.7098</b>	<b>69.3056</b>	<b>67.0917</b>	<b>136.3973</b>	<b>1.3500e-003</b>	<b>8.6600e-003</b>	<b>139.0123</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
Emergency Generator	1	1	365	100	0.73	Diesel

### 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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## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457

Total	0.1641	0.4587	0.5955	7.9000e-004		0.0241	0.0241		0.0241	0.0241		83.9514	83.9514	0.0118		84.2457
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## 11.0 Vegetation

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