

4th and Hill Existing - Los Angeles-South Coast County, Summer

**4th and Hill Existing**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	0.85	1000sqft	0.75	850.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2019
<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

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.02	0.75

**2.0 Emissions Summary**

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**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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Energy	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Mobile	0.2236	0.8757	2.0658	5.5600e-003	0.3902	6.4000e-003	0.3965	0.1044	6.0100e-003	0.1104		564.8697	564.8697	0.0363		565.7772
<b>Total</b>	<b>0.2484</b>	<b>0.9284</b>	<b>2.1102</b>	<b>5.8800e-003</b>	<b>0.3902</b>	<b>0.0104</b>	<b>0.4005</b>	<b>0.1044</b>	<b>0.0100</b>	<b>0.1144</b>		<b>628.0918</b>	<b>628.0918</b>	<b>0.0375</b>	<b>1.1600e-003</b>	<b>629.3750</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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Energy	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Mobile	0.2236	0.8757	2.0658	5.5600e-003	0.3902	6.4000e-003	0.3965	0.1044	6.0100e-003	0.1104		564.8697	564.8697	0.0363		565.7772
<b>Total</b>	<b>0.2484</b>	<b>0.9284</b>	<b>2.1102</b>	<b>5.8800e-003</b>	<b>0.3902</b>	<b>0.0104</b>	<b>0.4005</b>	<b>0.1044</b>	<b>0.0100</b>	<b>0.1144</b>		<b>628.0918</b>	<b>628.0918</b>	<b>0.0375</b>	<b>1.1600e-003</b>	<b>629.3750</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	0.2236	0.8757	2.0658	5.5600e-003	0.3902	6.4000e-003	0.3965	0.1044	6.0100e-003	0.1104		564.8697	564.8697	0.0363		565.7772
Unmitigated	0.2236	0.8757	2.0658	5.5600e-003	0.3902	6.4000e-003	0.3965	0.1044	6.0100e-003	0.1104		564.8697	564.8697	0.0363		565.7772

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	108.08	134.61	112.06	153,234	153,234
Total	108.08	134.61	112.06	153,234	153,234

## 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
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turnover (Sit Down Restaurant)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day						
	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	63.2219	63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Natural Gas Unmitigated	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	4.0000e-003	63.2219	63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
High Turnover (Sit Down Restaurant)	537.386	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
<b>Total</b>		<b>5.8000e-003</b>	<b>0.0527</b>	<b>0.0443</b>	<b>3.2000e-004</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>63.2219</b>	<b>63.2219</b>	<b>63.2219</b>	<b>1.2100e-003</b>	<b>1.1600e-003</b>	<b>63.5976</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						
High Turnover (Sit Down Restaurant)	0.537386	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
<b>Total</b>		<b>5.8000e-003</b>	<b>0.0527</b>	<b>0.0443</b>	<b>3.2000e-004</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>63.2219</b>	<b>63.2219</b>	<b>63.2219</b>	<b>1.2100e-003</b>	<b>1.1600e-003</b>	<b>63.5976</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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Unmitigated	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004

## 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	2.1600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
<b>Total</b>	<b>0.0190</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>2.0000e-004</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	2.1600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	0.0168				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000	2.0000e-004
<b>Total</b>	<b>0.0190</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

4th and Hill Existing - Los Angeles-South Coast County, Annual

**4th and Hill Existing**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	0.85	1000sqft	0.75	850.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2019
<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

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.02	0.75

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4700e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	31.3637	31.3637	6.9000e-004	2.9000e-004	31.4687
Mobile	0.0320	0.1372	0.3136	8.1000e-004	0.0582	9.8000e-004	0.0591	0.0156	9.2000e-004	0.0165	0.0000	75.1169	75.1169	5.0300e-003	0.0000	75.2428
Waste						0.0000	0.0000		0.0000	0.0000	2.0543	0.0000	2.0543	0.1214	0.0000	5.0894
Water						0.0000	0.0000		0.0000	0.0000	0.0819	1.9730	2.0549	8.4500e-003	2.1000e-004	2.3282
<b>Total</b>	<b>0.0365</b>	<b>0.1468</b>	<b>0.3217</b>	<b>8.7000e-004</b>	<b>0.0582</b>	<b>1.7100e-003</b>	<b>0.0599</b>	<b>0.0156</b>	<b>1.6500e-003</b>	<b>0.0172</b>	<b>2.1361</b>	<b>108.4537</b>	<b>110.5898</b>	<b>0.1356</b>	<b>5.0000e-004</b>	<b>114.1291</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4700e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	31.3637	31.3637	6.9000e-004	2.9000e-004	31.4687
Mobile	0.0320	0.1372	0.3136	8.1000e-004	0.0582	9.8000e-004	0.0591	0.0156	9.2000e-004	0.0165	0.0000	75.1169	75.1169	5.0300e-003	0.0000	75.2428
Waste						0.0000	0.0000		0.0000	0.0000	2.0543	0.0000	2.0543	0.1214	0.0000	5.0894
Water						0.0000	0.0000		0.0000	0.0000	0.0819	1.9730	2.0549	8.4500e-003	2.1000e-004	2.3282
<b>Total</b>	<b>0.0365</b>	<b>0.1468</b>	<b>0.3217</b>	<b>8.7000e-004</b>	<b>0.0582</b>	<b>1.7100e-003</b>	<b>0.0599</b>	<b>0.0156</b>	<b>1.6500e-003</b>	<b>0.0172</b>	<b>2.1361</b>	<b>108.4537</b>	<b>110.5898</b>	<b>0.1356</b>	<b>5.0000e-004</b>	<b>114.1291</b>



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

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0320	0.1372	0.3136	8.1000e-004	0.0582	9.8000e-004	0.0591	0.0156	9.2000e-004	0.0165	0.0000	75.1169	75.1169	5.0300e-003	0.0000	75.2428
Unmitigated	0.0320	0.1372	0.3136	8.1000e-004	0.0582	9.8000e-004	0.0591	0.0156	9.2000e-004	0.0165	0.0000	75.1169	75.1169	5.0300e-003	0.0000	75.2428

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	108.08	134.61	112.06	153,234	153,234
Total	108.08	134.61	112.06	153,234	153,234

### 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
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turnover (Sit Down Restaurant)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20.8966	20.8966	4.9000e-004	1.0000e-004	20.9394
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20.8966	20.8966	4.9000e-004	1.0000e-004	20.9394
Natural Gas Mitigated	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4671	10.4671	2.0000e-004	1.9000e-004	10.5293
Natural Gas Unmitigated	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4671	10.4671	2.0000e-004	1.9000e-004	10.5293

### 5.2 Energy by Land Use - Natural Gas

#### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High Turnover (Sit Down Restaurant)	196146	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4671	10.4671	2.0000e-004	1.9000e-004	10.5293
<b>Total</b>		<b>1.0600e-003</b>	<b>9.6100e-003</b>	<b>8.0800e-003</b>	<b>6.0000e-005</b>		<b>7.3000e-004</b>	<b>7.3000e-004</b>		<b>7.3000e-004</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>10.4671</b>	<b>10.4671</b>	<b>2.0000e-004</b>	<b>1.9000e-004</b>	<b>10.5293</b>

#### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High Turnover (Sit Down Restaurant)	196146	1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4671	10.4671	2.0000e-004	1.9000e-004	10.5293

Total		1.0600e-003	9.6100e-003	8.0800e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4671	10.4671	2.0000e-004	1.9000e-004	10.5293
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### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	37519	20.8966	4.9000e-004	1.0000e-004	20.9394
<b>Total</b>		<b>20.8966</b>	<b>4.9000e-004</b>	<b>1.0000e-004</b>	<b>20.9394</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	37519	20.8966	4.9000e-004	1.0000e-004	20.9394
<b>Total</b>		<b>20.8966</b>	<b>4.9000e-004</b>	<b>1.0000e-004</b>	<b>20.9394</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area



Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0549	8.4500e-003	2.1000e-004	2.3282
Unmitigated	2.0549	8.4500e-003	2.1000e-004	2.3282

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	0.258004 / 0.0164683	2.0549	8.4500e-003	2.1000e-004	2.3282
<b>Total</b>		<b>2.0549</b>	<b>8.4500e-003</b>	<b>2.1000e-004</b>	<b>2.3282</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	0.258004 / 0.0164683	2.0549	8.4500e-003	2.1000e-004	2.3282
<b>Total</b>		<b>2.0549</b>	<b>8.4500e-003</b>	<b>2.1000e-004</b>	<b>2.3282</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.0543	0.1214	0.0000	5.0894
Unmitigated	2.0543	0.1214	0.0000	5.0894

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	10.12	2.0543	0.1214	0.0000	5.0894
<b>Total</b>		<b>2.0543</b>	<b>0.1214</b>	<b>0.0000</b>	<b>5.0894</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	10.12	2.0543	0.1214	0.0000	5.0894
<b>Total</b>		<b>2.0543</b>	<b>0.1214</b>	<b>0.0000</b>	<b>5.0894</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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4th and Hill Existing - Los Angeles-South Coast County, Winter

**4th and Hill Existing**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	0.85	1000sqft	0.75	850.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2019
<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

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.02	0.75

**2.0 Emissions Summary**

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**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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Energy	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Mobile	0.2179	0.8862	2.0580	5.2700e-003	0.3902	6.4900e-003	0.3966	0.1044	6.0900e-003	0.1105		535.7318	535.7318	0.0369		536.6549
<b>Total</b>	<b>0.2427</b>	<b>0.9389</b>	<b>2.1024</b>	<b>5.5900e-003</b>	<b>0.3902</b>	<b>0.0105</b>	<b>0.4006</b>	<b>0.1044</b>	<b>0.0101</b>	<b>0.1145</b>		<b>598.9539</b>	<b>598.9539</b>	<b>0.0381</b>	<b>1.1600e-003</b>	<b>600.2527</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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Energy	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Mobile	0.2179	0.8862	2.0580	5.2700e-003	0.3902	6.4900e-003	0.3966	0.1044	6.0900e-003	0.1105		535.7318	535.7318	0.0369		536.6549
<b>Total</b>	<b>0.2427</b>	<b>0.9389</b>	<b>2.1024</b>	<b>5.5900e-003</b>	<b>0.3902</b>	<b>0.0105</b>	<b>0.4006</b>	<b>0.1044</b>	<b>0.0101</b>	<b>0.1145</b>		<b>598.9539</b>	<b>598.9539</b>	<b>0.0381</b>	<b>1.1600e-003</b>	<b>600.2527</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	0.2179	0.8862	2.0580	5.2700e-003	0.3902	6.4900e-003	0.3966	0.1044	6.0900e-003	0.1105		535.7318	535.7318	0.0369		536.6549
Unmitigated	0.2179	0.8862	2.0580	5.2700e-003	0.3902	6.4900e-003	0.3966	0.1044	6.0900e-003	0.1105		535.7318	535.7318	0.0369		536.6549

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	108.08	134.61	112.06	153,234	153,234
Total	108.08	134.61	112.06	153,234	153,234

#### 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
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turnover (Sit Down Restaurant)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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

Natural Gas Mitigated	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
Natural Gas Unmitigated	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High Turnover (Sit Down Restaurant)	537.386	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
<b>Total</b>		<b>5.8000e-003</b>	<b>0.0527</b>	<b>0.0443</b>	<b>3.2000e-004</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>63.2219</b>	<b>63.2219</b>	<b>1.2100e-003</b>	<b>1.1600e-003</b>	<b>63.5976</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					
High Turnover (Sit Down Restaurant)	0.537386	5.8000e-003	0.0527	0.0443	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003		63.2219	63.2219	1.2100e-003	1.1600e-003	63.5976
<b>Total</b>		<b>5.8000e-003</b>	<b>0.0527</b>	<b>0.0443</b>	<b>3.2000e-004</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>4.0000e-003</b>	<b>4.0000e-003</b>		<b>63.2219</b>	<b>63.2219</b>	<b>1.2100e-003</b>	<b>1.1600e-003</b>	<b>63.5976</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	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
Unmitigated	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004

## 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	2.1600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
<b>Total</b>	<b>0.0190</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>2.0000e-004</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	2.1600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004

Total	0.0190	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.9000e-004	1.9000e-004	0.0000		2.0000e-004
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## 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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4th and Hill Future - Los Angeles-South Coast County, Annual

**4th and Hill 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
General Office Building	2.98	1000sqft	0.01	2,980.00	0
Enclosed Parking with Elevator	435.00	Space	0.75	174,000.00	0
Health Club	47.15	1000sqft	0.03	47,151.00	0
Apartments High Rise	428.00	Dwelling Unit	0.70	315,829.00	1224
Strip Mall	2.63	1000sqft	0.01	2,630.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<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 - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information. Assumes 21-mile haul to Puente Hills Landfill. Also assumes haul truck capacity of 10 CY per trip.

Demolition - 1,000 cubic yards of demolition material @ 1,000 pounds per cubic yard (CalRecycle data)

Grading - Developer information

Vehicle Trips - IBI Group traffic study, includes 25% discount for public transit. Accommodates both affordable housing and apartment uses

Woodstoves - Assumes no fireplaces

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	29.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	306.00
tblConstructionPhase	NumDays	200.00	578.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	32.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	1.75	2.63
tblEnergyUse	LightingElect	3.77	3.88
tblEnergyUse	LightingElect	3.10	3.20
tblEnergyUse	LightingElect	6.26	6.43
tblEnergyUse	NT24E	3,054.10	3,277.06
tblEnergyUse	T24E	164.54	194.04
tblEnergyUse	T24E	4.60	4.82
tblEnergyUse	T24E	2.25	2.36
tblEnergyUse	T24E	4.01	4.20
tblEnergyUse	T24NG	4,385.94	6,328.91

tblEnergyUse	T24NG	10.02	10.07
tblEnergyUse	T24NG	13.65	13.71
tblEnergyUse	T24NG	1.15	1.16
tblFireplaces	NumberGas	363.80	0.00
tblFireplaces	NumberNoFireplace	42.80	428.00
tblFireplaces	NumberWood	21.40	0.00
tblGrading	AcresOfGrading	24.00	0.75
tblGrading	AcresOfGrading	7.50	1.00
tblGrading	MaterialExported	0.00	48,000.00
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	47,150.00	47,151.00
tblLandUse	LandUseSquareFeet	428,000.00	315,829.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	3.91	0.75
tblLandUse	LotAcreage	1.08	0.03
tblLandUse	LotAcreage	6.90	0.70
tblLandUse	LotAcreage	0.06	0.01
tblOffRoadEquipment	HorsePower	231.00	9.00
tblOffRoadEquipment	HorsePower	16.00	81.00
tblOffRoadEquipment	HorsePower	16.00	247.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	HorsePower	124.00	247.00
tblOffRoadEquipment	HorsePower	124.00	97.00
tblOffRoadEquipment	HorsePower	13.00	84.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40

tblOffRoadEquipment	LoadFactor	0.44	0.40
tblOffRoadEquipment	LoadFactor	0.44	0.37
tblOffRoadEquipment	LoadFactor	0.30	0.74
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	49.00	100.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	4,800.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	83.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	48.00	50.00
tblTripsAndVMT	WorkerTripNumber	30.00	50.00
tblTripsAndVMT	WorkerTripNumber	68.00	200.00
tblTripsAndVMT	WorkerTripNumber	403.00	500.00
tblTripsAndVMT	WorkerTripNumber	81.00	200.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	4.20	4.97
tblVehicleTrips	WD_TR	11.03	8.26

tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	44.32	67.46
tblWoodstoves	NumberCatalytic	21.40	0.00
tblWoodstoves	NumberNoncatalytic	21.40	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					
2021	1.1084	8.5276	9.5486	0.0210	0.6869	0.4032	1.0901	0.2141	0.3927	0.6068	0.0000	1,848.0272	1,848.0272	0.1670	0.0000	1,852.2024
2022	2.7764	14.4482	18.9326	0.0378	0.9725	0.7032	1.6757	0.2599	0.6899	0.9498	0.0000	3,279.3825	3,279.3825	0.2658	0.0000	3,286.0282
2023	1.7561	8.4503	11.8058	0.0237	0.6074	0.3897	0.9971	0.1624	0.3823	0.5446	0.0000	2,052.1186	2,052.1186	0.1602	0.0000	2,056.1242
<b>Maximum</b>	<b>2.7764</b>	<b>14.4482</b>	<b>18.9326</b>	<b>0.0378</b>	<b>0.9725</b>	<b>0.7032</b>	<b>1.6757</b>	<b>0.2599</b>	<b>0.6899</b>	<b>0.9498</b>	<b>0.0000</b>	<b>3,279.3825</b>	<b>3,279.3825</b>	<b>0.2658</b>	<b>0.0000</b>	<b>3,286.0282</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4473	3.2651	9.8373	0.0210	0.3895	0.0645	0.4540	0.1203	0.0624	0.1827	0.0000	1,848.0259	1,848.0259	0.1670	0.0000	1,852.2011
2022	1.4600	4.7323	19.1670	0.0378	0.5898	0.0844	0.6741	0.1659	0.0831	0.2490	0.0000	3,279.3799	3,279.3799	0.2658	0.0000	3,286.0255

2023	0.9816	2.8035	11.9509	0.0237	0.3685	0.0481	0.4166	0.1037	0.0474	0.1511	0.0000	2,052.1169	2,052.1169	0.1602	0.0000	2,056.1225
<b>Maximum</b>	<b>1.4600</b>	<b>4.7323</b>	<b>19.1670</b>	<b>0.0378</b>	<b>0.5898</b>	<b>0.0844</b>	<b>0.6741</b>	<b>0.1659</b>	<b>0.0831</b>	<b>0.2490</b>	<b>0.0000</b>	<b>3,279.3799</b>	<b>3,279.3799</b>	<b>0.2658</b>	<b>0.0000</b>	<b>3,286.0255</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>48.79</b>	<b>65.63</b>	<b>-1.66</b>	<b>0.00</b>	<b>40.54</b>	<b>86.84</b>	<b>58.95</b>	<b>38.72</b>	<b>86.83</b>	<b>72.26</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	2-1-2021	4-30-2021	1.2170	0.8502
5	5-1-2021	7-31-2021	3.0204	1.1272
6	8-1-2021	10-31-2021	3.1822	0.9976
7	11-1-2021	1-31-2022	3.1131	0.9940
8	2-1-2022	4-30-2022	2.8595	0.9344
9	5-1-2022	7-31-2022	5.0182	1.8420
10	8-1-2022	10-31-2022	5.0239	1.8477
11	11-1-2022	1-31-2023	4.9107	1.8227
12	2-1-2023	4-30-2023	4.5087	1.6894
13	5-1-2023	7-31-2023	4.0642	1.4807
14	8-1-2023	9-30-2023	0.0592	0.0195
		<b>Highest</b>	<b>5.0239</b>	<b>1.8477</b>

## 2.2 Overall Operational

### Unmitigated Operational

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					
Area	1.6024	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961
Energy	0.0306	0.2638	0.1304	1.6700e-003		0.0211	0.0211		0.0211	0.0211	0.0000	2,299.2683	2,299.2683	0.0530	0.0153	2,305.1524

Mobile	0.6205	2.8252	8.5939	0.0326	2.7843	0.0247	2.8090	0.7463	0.0230	0.7693	0.0000	3,015.3643	3,015.3643	0.1477	0.0000	3,019.0572
Waste						0.0000	0.0000		0.0000	0.0000	95.6412	0.0000	95.6412	5.6522	0.0000	236.9471
Water						0.0000	0.0000		0.0000	0.0000	9.9615	349.8189	359.7803	1.0314	0.0259	393.2739
<b>Total</b>	<b>2.2534</b>	<b>3.1400</b>	<b>13.1453</b>	<b>0.0345</b>	<b>2.7843</b>	<b>0.0703</b>	<b>2.8546</b>	<b>0.7463</b>	<b>0.0686</b>	<b>0.8149</b>	<b>105.6027</b>	<b>5,671.6734</b>	<b>5,777.2761</b>	<b>6.8913</b>	<b>0.0412</b>	<b>5,961.8267</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	1.6024	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961
Energy	0.0306	0.2638	0.1304	1.6700e-003		0.0211	0.0211		0.0211	0.0211	0.0000	2,299.2683	2,299.2683	0.0530	0.0153	2,305.1524
Mobile	0.6205	2.8252	8.5939	0.0326	2.7843	0.0247	2.8090	0.7463	0.0230	0.7693	0.0000	3,015.3643	3,015.3643	0.1477	0.0000	3,019.0572
Waste						0.0000	0.0000		0.0000	0.0000	95.6412	0.0000	95.6412	5.6522	0.0000	236.9471
Water						0.0000	0.0000		0.0000	0.0000	9.9615	349.8189	359.7803	1.0314	0.0259	393.2739
<b>Total</b>	<b>2.2534</b>	<b>3.1400</b>	<b>13.1453</b>	<b>0.0345</b>	<b>2.7843</b>	<b>0.0703</b>	<b>2.8546</b>	<b>0.7463</b>	<b>0.0686</b>	<b>0.8149</b>	<b>105.6027</b>	<b>5,671.6734</b>	<b>5,777.2761</b>	<b>6.8913</b>	<b>0.0412</b>	<b>5,961.8267</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/9/2021	5	7	

2	Site Preparation	Site Preparation	3/11/2021	3/31/2021	5	15
3	Grading	Grading	4/1/2021	5/14/2021	5	32
4	Building Construction	Building Construction	5/16/2021	8/2/2023	5	578
5	Architectural Coating	Architectural Coating	5/1/2022	7/3/2023	5	306

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

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0.75**

**Residential Indoor: 639,554; Residential Outdoor: 213,185; Non-Residential Indoor: 79,142; Non-Residential Outdoor: 26,381; Striped Parking**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Dumpers/Tenders	10	8.00	81	0.73
Demolition	Off-Highway Tractors	1	8.00	247	0.40
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Signal Boards	2	8.00	97	0.37
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Site Preparation	Excavators	1	7.00	247	0.40
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Tractors	1	8.00	124	0.44
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Signal Boards	2	8.00	6	0.82
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Trenchers	2	8.00	78	0.50
Grading	Dumpers/Tenders	19	6.00	247	0.40
Grading	Graders	2	6.00	187	0.41

Grading	Off-Highway Tractors	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Signal Boards	2	8.00	63	0.82
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	3	6.00	63	0.31
Building Construction	Air Compressors	10	6.00	78	0.48
Building Construction	Cement and Mortar Mixers	4	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	5	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	5	8.00	84	0.74
Building Construction	Signal Boards	2	6.00	97	0.37
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	2	8.00	78	0.50
Building Construction	Welders	5	8.00	46	0.45
Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	10	6.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Concrete/Industrial Saws	5	8.00	81	0.73
Architectural Coating	Cranes	1	6.00	9	0.56
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Pressure Washers	5	6.00	13	0.30
Architectural Coating	Signal Boards	2	8.00	6	0.82
Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Architectural Coating	Welders	5	6.00	46	0.45

**Trips and VMT**



Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	19	50.00	0.00	100.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	27	200.00	20.00	4,800.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Building Construction	43	500.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	39	200.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					5.3500e-003	0.0000	5.3500e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.1018	0.0801	1.5000e-004		5.3300e-003	5.3300e-003		5.0100e-003	5.0100e-003	0.0000	13.0470	13.0470	3.1100e-003	0.0000	13.1247
<b>Total</b>	<b>0.0106</b>	<b>0.1018</b>	<b>0.0801</b>	<b>1.5000e-004</b>	<b>5.3500e-003</b>	<b>5.3300e-003</b>	<b>0.0107</b>	<b>8.1000e-004</b>	<b>5.0100e-003</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>13.0470</b>	<b>13.0470</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>13.1247</b>

#### Unmitigated Construction Off-Site



Worker	7.5000e-004	5.9000e-004	6.6200e-003	2.0000e-005	1.1500e-003	2.0000e-005	1.1700e-003	3.2000e-004	1.0000e-005	3.4000e-004	0.0000	1.7306	1.7306	5.0000e-005	0.0000	1.7319
<b>Total</b>	<b>1.1900e-003</b>	<b>0.0149</b>	<b>9.9800e-003</b>	<b>6.0000e-005</b>	<b>1.7400e-003</b>	<b>6.0000e-005</b>	<b>1.8000e-003</b>	<b>4.9000e-004</b>	<b>5.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.7081</b>	<b>5.7081</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>5.7163</b>

### 3.3 Site Preparation - 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					
Fugitive Dust					0.0401	0.0000	0.0401	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.2882	0.1819	4.4000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	38.5353	38.5353	0.0123	0.0000	38.8432
<b>Total</b>	<b>0.0276</b>	<b>0.2882</b>	<b>0.1819</b>	<b>4.4000e-004</b>	<b>0.0401</b>	<b>0.0138</b>	<b>0.0539</b>	<b>0.0218</b>	<b>0.0127</b>	<b>0.0345</b>	<b>0.0000</b>	<b>38.5353</b>	<b>38.5353</b>	<b>0.0123</b>	<b>0.0000</b>	<b>38.8432</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	7.4000e-003	2.0100e-003	2.0000e-005	4.7000e-004	2.0000e-005	4.9000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	1.8487	1.8487	1.1000e-004	0.0000	1.8516
Worker	1.6100e-003	1.2600e-003	0.0142	4.0000e-005	4.1100e-003	3.0000e-005	4.1400e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.7084	3.7084	1.1000e-004	0.0000	3.7112
<b>Total</b>	<b>1.8400e-003</b>	<b>8.6600e-003</b>	<b>0.0162</b>	<b>6.0000e-005</b>	<b>4.5800e-003</b>	<b>5.0000e-005</b>	<b>4.6300e-003</b>	<b>1.2300e-003</b>	<b>4.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>5.5572</b>	<b>5.5572</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>5.5627</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					0.0148	0.0000	0.0148	8.0700e-003	0.0000	8.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1126	0.2346	4.4000e-004		4.7800e-003	4.7800e-003		4.4500e-003	4.4500e-003	0.0000	38.5353	38.5353	0.0123	0.0000	38.8432
<b>Total</b>	<b>0.0127</b>	<b>0.1126</b>	<b>0.2346</b>	<b>4.4000e-004</b>	<b>0.0148</b>	<b>4.7800e-003</b>	<b>0.0196</b>	<b>8.0700e-003</b>	<b>4.4500e-003</b>	<b>0.0125</b>	<b>0.0000</b>	<b>38.5353</b>	<b>38.5353</b>	<b>0.0123</b>	<b>0.0000</b>	<b>38.8432</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	7.4000e-003	2.0100e-003	2.0000e-005	3.2000e-004	2.0000e-005	3.3000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.8487	1.8487	1.1000e-004	0.0000	1.8516
Worker	1.6100e-003	1.2600e-003	0.0142	4.0000e-005	2.4700e-003	3.0000e-005	2.5000e-003	6.9000e-004	3.0000e-005	7.2000e-004	0.0000	3.7084	3.7084	1.1000e-004	0.0000	3.7112
<b>Total</b>	<b>1.8400e-003</b>	<b>8.6600e-003</b>	<b>0.0162</b>	<b>6.0000e-005</b>	<b>2.7900e-003</b>	<b>5.0000e-005</b>	<b>2.8300e-003</b>	<b>7.9000e-004</b>	<b>4.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>5.5572</b>	<b>5.5572</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>5.5627</b>

### 3.4 Grading - 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					

Fugitive Dust					0.0757	0.0000	0.0757	0.0402	0.0000	0.0402	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0350	0.3782	0.1965	4.1000e-004		0.0176	0.0176		0.0163	0.0163	0.0000	35.6190	35.6190	0.0112	0.0000	35.8991
<b>Total</b>	<b>0.0350</b>	<b>0.3782</b>	<b>0.1965</b>	<b>4.1000e-004</b>	<b>0.0757</b>	<b>0.0176</b>	<b>0.0933</b>	<b>0.0402</b>	<b>0.0163</b>	<b>0.0565</b>	<b>0.0000</b>	<b>35.6190</b>	<b>35.6190</b>	<b>0.0112</b>	<b>0.0000</b>	<b>35.8991</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	0.0210	0.6866	0.1611	1.9400e-003	0.0433	2.0800e-003	0.0454	0.0119	1.9900e-003	0.0139	0.0000	190.9212	190.9212	0.0132	0.0000	191.2501
Vendor	9.9000e-004	0.0316	8.5600e-003	8.0000e-005	2.0200e-003	6.0000e-005	2.0800e-003	5.8000e-004	6.0000e-005	6.4000e-004	0.0000	7.8879	7.8879	4.8000e-004	0.0000	7.9000
Worker	0.0138	0.0107	0.1210	3.5000e-004	0.0351	2.9000e-004	0.0354	9.3100e-003	2.7000e-004	9.5800e-003	0.0000	31.6454	31.6454	9.3000e-004	0.0000	31.6686
<b>Total</b>	<b>0.0358</b>	<b>0.7289</b>	<b>0.2906</b>	<b>2.3700e-003</b>	<b>0.0804</b>	<b>2.4300e-003</b>	<b>0.0828</b>	<b>0.0218</b>	<b>2.3200e-003</b>	<b>0.0241</b>	<b>0.0000</b>	<b>230.4545</b>	<b>230.4545</b>	<b>0.0146</b>	<b>0.0000</b>	<b>230.8187</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					0.0280	0.0000	0.0280	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1878	0.2152	4.1000e-004		8.1100e-003	8.1100e-003		7.5000e-003	7.5000e-003	0.0000	35.6189	35.6189	0.0112	0.0000	35.8991
<b>Total</b>	<b>0.0183</b>	<b>0.1878</b>	<b>0.2152</b>	<b>4.1000e-004</b>	<b>0.0280</b>	<b>8.1100e-003</b>	<b>0.0361</b>	<b>0.0149</b>	<b>7.5000e-003</b>	<b>0.0224</b>	<b>0.0000</b>	<b>35.6189</b>	<b>35.6189</b>	<b>0.0112</b>	<b>0.0000</b>	<b>35.8991</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	0.0210	0.6866	0.1611	1.9400e-003	0.0283	2.0800e-003	0.0304	8.2200e-003	1.9900e-003	0.0102	0.0000	190.9212	190.9212	0.0132	0.0000	191.2501
Vendor	9.9000e-004	0.0316	8.5600e-003	8.0000e-005	1.3600e-003	6.0000e-005	1.4200e-003	4.2000e-004	6.0000e-005	4.8000e-004	0.0000	7.8879	7.8879	4.8000e-004	0.0000	7.9000
Worker	0.0138	0.0107	0.1210	3.5000e-004	0.0211	2.9000e-004	0.0214	5.8800e-003	2.7000e-004	6.1500e-003	0.0000	31.6454	31.6454	9.3000e-004	0.0000	31.6686
<b>Total</b>	<b>0.0358</b>	<b>0.7289</b>	<b>0.2906</b>	<b>2.3700e-003</b>	<b>0.0508</b>	<b>2.4300e-003</b>	<b>0.0532</b>	<b>0.0145</b>	<b>2.3200e-003</b>	<b>0.0168</b>	<b>0.0000</b>	<b>230.4545</b>	<b>230.4545</b>	<b>0.0146</b>	<b>0.0000</b>	<b>230.8187</b>

**3.5 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	0.8061	6.4616	7.1030	0.0119		0.3593	0.3593		0.3520	0.3520	0.0000	1,009.4980	1,009.4980	0.1070	0.0000	1,012.1736
<b>Total</b>	<b>0.8061</b>	<b>6.4616</b>	<b>7.1030</b>	<b>0.0119</b>		<b>0.3593</b>	<b>0.3593</b>		<b>0.3520</b>	<b>0.3520</b>	<b>0.0000</b>	<b>1,009.4980</b>	<b>1,009.4980</b>	<b>0.1070</b>	<b>0.0000</b>	<b>1,012.1736</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.4071	0.1104	1.0500e-003	0.0260	8.3000e-004	0.0268	7.5000e-003	7.9000e-004	8.2900e-003	0.0000	101.6798	101.6798	6.2400e-003	0.0000	101.8358
Worker	0.1775	0.1382	1.5599	4.5100e-003	0.4520	3.7300e-003	0.4557	0.1201	3.4300e-003	0.1235	0.0000	407.9283	407.9283	0.0120	0.0000	408.2284
<b>Total</b>	<b>0.1903</b>	<b>0.5453</b>	<b>1.6703</b>	<b>5.5600e-003</b>	<b>0.4780</b>	<b>4.5600e-003</b>	<b>0.4826</b>	<b>0.1276</b>	<b>4.2200e-003</b>	<b>0.1318</b>	<b>0.0000</b>	<b>509.6081</b>	<b>509.6081</b>	<b>0.0182</b>	<b>0.0000</b>	<b>510.0641</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	0.1806	1.6019	7.3124	0.0119		0.0415	0.0415		0.0410	0.0410	0.0000	1,009.4968	1,009.4968	0.1070	0.0000	1,012.1724
<b>Total</b>	<b>0.1806</b>	<b>1.6019</b>	<b>7.3124</b>	<b>0.0119</b>		<b>0.0415</b>	<b>0.0415</b>		<b>0.0410</b>	<b>0.0410</b>	<b>0.0000</b>	<b>1,009.4968</b>	<b>1,009.4968</b>	<b>0.1070</b>	<b>0.0000</b>	<b>1,012.1724</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	0.0128	0.4071	0.1104	1.0500e-003	0.0175	8.3000e-004	0.0184	5.4200e-003	7.9000e-004	6.2200e-003	0.0000	101.6798	101.6798	6.2400e-003	0.0000	101.8358
Worker	0.1775	0.1382	1.5599	4.5100e-003	0.2718	3.7300e-003	0.2755	0.0758	3.4300e-003	0.0793	0.0000	407.9283	407.9283	0.0120	0.0000	408.2284

<b>Total</b>	<b>0.1903</b>	<b>0.5453</b>	<b>1.6703</b>	<b>5.5600e-003</b>	<b>0.2893</b>	<b>4.5600e-003</b>	<b>0.2939</b>	<b>0.0812</b>	<b>4.2200e-003</b>	<b>0.0855</b>	<b>0.0000</b>	<b>509.6081</b>	<b>509.6081</b>	<b>0.0182</b>	<b>0.0000</b>	<b>510.0641</b>
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### 3.5 Building Construction - 2022

#### 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	1.1734	9.4374	11.1371	0.0188		0.4944	0.4944		0.4842	0.4842	0.0000	1,590.7686	1,590.7686	0.1632	0.0000	1,594.8483
<b>Total</b>	<b>1.1734</b>	<b>9.4374</b>	<b>11.1371</b>	<b>0.0188</b>		<b>0.4944</b>	<b>0.4944</b>		<b>0.4842</b>	<b>0.4842</b>	<b>0.0000</b>	<b>1,590.7686</b>	<b>1,590.7686</b>	<b>0.1632</b>	<b>0.0000</b>	<b>1,594.8483</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	0.0189	0.6095	0.1646	1.6400e-003	0.0409	1.1400e-003	0.0421	0.0118	1.0900e-003	0.0129	0.0000	158.8155	158.8155	9.4900e-003	0.0000	159.0526
Worker	0.2623	0.1967	2.2648	6.8600e-003	0.7123	5.6900e-003	0.7180	0.1892	5.2400e-003	0.1944	0.0000	620.2006	620.2006	0.0171	0.0000	620.6276
<b>Total</b>	<b>0.2812</b>	<b>0.8061</b>	<b>2.4294</b>	<b>8.5000e-003</b>	<b>0.7532</b>	<b>6.8300e-003</b>	<b>0.7601</b>	<b>0.2010</b>	<b>6.3300e-003</b>	<b>0.2073</b>	<b>0.0000</b>	<b>779.0161</b>	<b>779.0161</b>	<b>0.0266</b>	<b>0.0000</b>	<b>779.6803</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	0.2775	2.4599	11.5190	0.0188		0.0594	0.0594		0.0588	0.0588	0.0000	1,590.7667	1,590.7667	0.1632	0.0000	1,594.8464
<b>Total</b>	<b>0.2775</b>	<b>2.4599</b>	<b>11.5190</b>	<b>0.0188</b>		<b>0.0594</b>	<b>0.0594</b>		<b>0.0588</b>	<b>0.0588</b>	<b>0.0000</b>	<b>1,590.7667</b>	<b>1,590.7667</b>	<b>0.1632</b>	<b>0.0000</b>	<b>1,594.8464</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	0.0189	0.6095	0.1646	1.6400e-003	0.0276	1.1400e-003	0.0288	8.5500e-003	1.0900e-003	9.6400e-003	0.0000	158.8155	158.8155	9.4900e-003	0.0000	159.0526
Worker	0.2623	0.1967	2.2648	6.8600e-003	0.4283	5.6900e-003	0.4340	0.1195	5.2400e-003	0.1247	0.0000	620.2006	620.2006	0.0171	0.0000	620.6276
<b>Total</b>	<b>0.2812</b>	<b>0.8061</b>	<b>2.4294</b>	<b>8.5000e-003</b>	<b>0.4559</b>	<b>6.8300e-003</b>	<b>0.4627</b>	<b>0.1280</b>	<b>6.3300e-003</b>	<b>0.1344</b>	<b>0.0000</b>	<b>779.0161</b>	<b>779.0161</b>	<b>0.0266</b>	<b>0.0000</b>	<b>779.6803</b>

### 3.5 Building Construction - 2023

#### 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	0.6439	5.1864	6.5322	0.0110		0.2549	0.2549		0.2495	0.2495	0.0000	936.1583	936.1583	0.0925	0.0000	938.4709
<b>Total</b>	<b>0.6439</b>	<b>5.1864</b>	<b>6.5322</b>	<b>0.0110</b>		<b>0.2549</b>	<b>0.2549</b>		<b>0.2495</b>	<b>0.2495</b>	<b>0.0000</b>	<b>936.1583</b>	<b>936.1583</b>	<b>0.0925</b>	<b>0.0000</b>	<b>938.4709</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	8.2800e-003	0.2710	0.0869	9.3000e-004	0.0241	3.2000e-004	0.0244	6.9500e-003	3.0000e-004	7.2600e-003	0.0000	90.5310	90.5310	4.9300e-003	0.0000	90.6544
Worker	0.1451	0.1047	1.2255	3.8900e-003	0.4191	3.2500e-003	0.4224	0.1113	2.9900e-003	0.1143	0.0000	351.6091	351.6091	9.0500e-003	0.0000	351.8354
<b>Total</b>	<b>0.1534</b>	<b>0.3757</b>	<b>1.3124</b>	<b>4.8200e-003</b>	<b>0.4432</b>	<b>3.5700e-003</b>	<b>0.4468</b>	<b>0.1183</b>	<b>3.2900e-003</b>	<b>0.1216</b>	<b>0.0000</b>	<b>442.1401</b>	<b>442.1401</b>	<b>0.0140</b>	<b>0.0000</b>	<b>442.4898</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	0.1599	1.4162	6.7774	0.0110		0.0320	0.0320		0.0317	0.0317	0.0000	936.1571	936.1571	0.0925	0.0000	938.4698
<b>Total</b>	<b>0.1599</b>	<b>1.4162</b>	<b>6.7774</b>	<b>0.0110</b>		<b>0.0320</b>	<b>0.0320</b>		<b>0.0317</b>	<b>0.0317</b>	<b>0.0000</b>	<b>936.1571</b>	<b>936.1571</b>	<b>0.0925</b>	<b>0.0000</b>	<b>938.4698</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	8.2800e-003	0.2710	0.0869	9.3000e-004	0.0163	3.2000e-004	0.0166	5.0300e-003	3.0000e-004	5.3300e-003	0.0000	90.5310	90.5310	4.9300e-003	0.0000	90.6544
Worker	0.1451	0.1047	1.2255	3.8900e-003	0.2520	3.2500e-003	0.2553	0.0703	2.9900e-003	0.0733	0.0000	351.6091	351.6091	9.0500e-003	0.0000	351.8354
<b>Total</b>	<b>0.1534</b>	<b>0.3757</b>	<b>1.3124</b>	<b>4.8200e-003</b>	<b>0.2683</b>	<b>3.5700e-003</b>	<b>0.2719</b>	<b>0.0753</b>	<b>3.2900e-003</b>	<b>0.0786</b>	<b>0.0000</b>	<b>442.1401</b>	<b>442.1401</b>	<b>0.0140</b>	<b>0.0000</b>	<b>442.4898</b>

**3.6 Architectural Coating - 2022**

**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	0.7188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5197	3.7415	4.6457	7.6200e-003		0.1997	0.1997		0.1972	0.1972	0.0000	635.7257	635.7257	0.0651	0.0000	637.3529
<b>Total</b>	<b>1.2385</b>	<b>3.7415</b>	<b>4.6457</b>	<b>7.6200e-003</b>		<b>0.1997</b>	<b>0.1997</b>		<b>0.1972</b>	<b>0.1972</b>	<b>0.0000</b>	<b>635.7257</b>	<b>635.7257</b>	<b>0.0651</b>	<b>0.0000</b>	<b>637.3529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.4102	0.1108	1.1000e-003	0.0276	7.7000e-004	0.0283	7.9500e-003	7.4000e-004	8.6900e-003	0.0000	106.8950	106.8950	6.3800e-003	0.0000	107.0547
Worker	0.0706	0.0530	0.6098	1.8500e-003	0.1918	1.5300e-003	0.1933	0.0509	1.4100e-003	0.0523	0.0000	166.9771	166.9771	4.6000e-003	0.0000	167.0921
<b>Total</b>	<b>0.0834</b>	<b>0.4632</b>	<b>0.7205</b>	<b>2.9500e-003</b>	<b>0.2193</b>	<b>2.3000e-003</b>	<b>0.2216</b>	<b>0.0589</b>	<b>2.1500e-003</b>	<b>0.0610</b>	<b>0.0000</b>	<b>273.8721</b>	<b>273.8721</b>	<b>0.0110</b>	<b>0.0000</b>	<b>274.1467</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	0.7188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0992	1.0031	4.4981	7.6200e-003		0.0159	0.0159		0.0159	0.0159	0.0000	635.7249	635.7249	0.0651	0.0000	637.3521
<b>Total</b>	<b>0.8180</b>	<b>1.0031</b>	<b>4.4981</b>	<b>7.6200e-003</b>		<b>0.0159</b>	<b>0.0159</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>635.7249</b>	<b>635.7249</b>	<b>0.0651</b>	<b>0.0000</b>	<b>637.3521</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	0.0128	0.4102	0.1108	1.1000e-003	0.0186	7.7000e-004	0.0194	5.7500e-003	7.4000e-004	6.4900e-003	0.0000	106.8950	106.8950	6.3800e-003	0.0000	107.0547
Worker	0.0706	0.0530	0.6098	1.8500e-003	0.1153	1.5300e-003	0.1168	0.0322	1.4100e-003	0.0336	0.0000	166.9771	166.9771	4.6000e-003	0.0000	167.0921

<b>Total</b>	<b>0.0834</b>	<b>0.4632</b>	<b>0.7205</b>	<b>2.9500e-003</b>	<b>0.1339</b>	<b>2.3000e-003</b>	<b>0.1362</b>	<b>0.0379</b>	<b>2.1500e-003</b>	<b>0.0401</b>	<b>0.0000</b>	<b>273.8721</b>	<b>273.8721</b>	<b>0.0110</b>	<b>0.0000</b>	<b>274.1467</b>
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### 3.6 Architectural Coating - 2023

#### 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	0.5381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3640	2.6205	3.4671	5.7000e-003		0.1299	0.1299		0.1283	0.1283	0.0000	475.8864	475.8864	0.0464	0.0000	477.0466
<b>Total</b>	<b>0.9021</b>	<b>2.6205</b>	<b>3.4671</b>	<b>5.7000e-003</b>		<b>0.1299</b>	<b>0.1299</b>		<b>0.1283</b>	<b>0.1283</b>	<b>0.0000</b>	<b>475.8864</b>	<b>475.8864</b>	<b>0.0464</b>	<b>0.0000</b>	<b>477.0466</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	7.0900e-003	0.2320	0.0744	8.0000e-004	0.0206	2.7000e-004	0.0209	5.9500e-003	2.6000e-004	6.2100e-003	0.0000	77.5135	77.5135	4.2200e-003	0.0000	77.6191
Worker	0.0497	0.0359	0.4197	1.3300e-003	0.1436	1.1100e-003	0.1447	0.0381	1.0300e-003	0.0392	0.0000	120.4204	120.4204	3.1000e-003	0.0000	120.4979
<b>Total</b>	<b>0.0568</b>	<b>0.2679</b>	<b>0.4941</b>	<b>2.1300e-003</b>	<b>0.1642</b>	<b>1.3800e-003</b>	<b>0.1656</b>	<b>0.0441</b>	<b>1.2900e-003</b>	<b>0.0454</b>	<b>0.0000</b>	<b>197.9339</b>	<b>197.9339</b>	<b>7.3200e-003</b>	<b>0.0000</b>	<b>198.1170</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	0.5381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0735	0.7438	3.3669	5.7000e-003		0.0111	0.0111		0.0111	0.0111	0.0000	475.8858	475.8858	0.0464	0.0000	477.0460
<b>Total</b>	<b>0.6115</b>	<b>0.7438</b>	<b>3.3669</b>	<b>5.7000e-003</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>475.8858</b>	<b>475.8858</b>	<b>0.0464</b>	<b>0.0000</b>	<b>477.0460</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	7.0900e-003	0.2320	0.0744	8.0000e-004	0.0139	2.7000e-004	0.0142	4.3100e-003	2.6000e-004	4.5600e-003	0.0000	77.5135	77.5135	4.2200e-003	0.0000	77.6191
Worker	0.0497	0.0359	0.4197	1.3300e-003	0.0863	1.1100e-003	0.0874	0.0241	1.0300e-003	0.0251	0.0000	120.4204	120.4204	3.1000e-003	0.0000	120.4979
<b>Total</b>	<b>0.0568</b>	<b>0.2679</b>	<b>0.4941</b>	<b>2.1300e-003</b>	<b>0.1002</b>	<b>1.3800e-003</b>	<b>0.1016</b>	<b>0.0284</b>	<b>1.2900e-003</b>	<b>0.0297</b>	<b>0.0000</b>	<b>197.9339</b>	<b>197.9339</b>	<b>7.3200e-003</b>	<b>0.0000</b>	<b>198.1170</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6205	2.8252	8.5939	0.0326	2.7843	0.0247	2.8090	0.7463	0.0230	0.7693	0.0000	3,015.3643	3,015.3643	0.1477	0.0000	3,019.0572
Unmitigated	0.6205	2.8252	8.5939	0.0326	2.7843	0.0247	2.8090	0.7463	0.0230	0.7693	0.0000	3,015.3643	3,015.3643	0.1477	0.0000	3,019.0572

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	2,127.16	2,127.16	1562.20	6,988,804	6,988,804
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	24.61	7.33	3.13	61,453	61,453
Health Club	0.00	0.00	0.00		
Strip Mall	177.42	110.57	53.73	285,768	285,768
Total	2,329.19	2,245.06	1,619.06	7,336,026	7,336,026

#### 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
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Health Club	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,996.7908	1,996.7908	0.0472	9.7600e-003	2,000.8775
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,996.7908	1,996.7908	0.0472	9.7600e-003	2,000.8775
Natural Gas Mitigated	0.0306	0.2638	0.1304	1.6700e-003		0.0211	0.0211		0.0211	0.0211	0.0000	302.4775	302.4775	5.8000e-003	5.5500e-003	304.2750
Natural Gas Unmitigated	0.0306	0.2638	0.1304	1.6700e-003		0.0211	0.0211		0.0211	0.0211	0.0000	302.4775	302.4775	5.8000e-003	5.5500e-003	304.2750

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.77644e+06	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178	0.0000	254.8891	254.8891	4.8900e-003	4.6700e-003	256.4038



Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	31170.8	1.7000e-004	1.5300e-003	1.2800e-003	1.0000e-005	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	1.2000e-004	0.0000	1.6634	1.6634	3.0000e-005	3.0000e-005	1.6733	
Health Club	856262	4.6200e-003	0.0420	0.0353	2.5000e-004	3.1900e-003	3.1900e-003	3.1900e-003	3.1900e-003	3.1900e-003	0.0000	45.6934	45.6934	8.8000e-004	8.4000e-004	45.9649	
Strip Mall	4339.5	2.0000e-005	2.1000e-004	1.8000e-004	0.0000	2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005	0.0000	0.2316	0.2316	0.0000	0.0000	0.2330	
<b>Total</b>		<b>0.0306</b>	<b>0.2638</b>	<b>0.1304</b>	<b>1.6600e-003</b>	<b>0.0211</b>	<b>0.0211</b>	<b>0.0211</b>	<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>302.4775</b>	<b>302.4775</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2750</b>	

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.77644e+006	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178	0.0000	254.8891	254.8891	4.8900e-003	4.6700e-003	256.4038
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	31170.8	1.7000e-004	1.5300e-003	1.2800e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6634	1.6634	3.0000e-005	3.0000e-005	1.6733
Health Club	856262	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.6934	45.6934	8.8000e-004	8.4000e-004	45.9649
Strip Mall	4339.5	2.0000e-005	2.1000e-004	1.8000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2316	0.2316	0.0000	0.0000	0.2330
<b>Total</b>		<b>0.0306</b>	<b>0.2638</b>	<b>0.1304</b>	<b>1.6600e-003</b>		<b>0.0211</b>	<b>0.0211</b>		<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>302.4775</b>	<b>302.4775</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2750</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

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

Apartments High Rise	1.80297e+06	1,004.1833	0.0237	4.9100e-003	1,006.2385
Enclosed Parking with Elevator	1.17276e+06	653.1822	0.0154	3.1900e-003	654.5190
General Office Building	39693.6	22.1078	5.2000e-004	1.1000e-004	22.1531
Health Club	533278	297.0152	7.0100e-003	1.4500e-003	297.6231
Strip Mall	36451.8	20.3023	4.8000e-004	1.0000e-004	20.3438
<b>Total</b>		<b>1,996.7908</b>	<b>0.0472</b>	<b>9.7600e-003</b>	<b>2,000.8775</b>

### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.80297e+06	1,004.1833	0.0237	4.9100e-003	1,006.2385
Enclosed Parking with Elevator	1.17276e+06	653.1822	0.0154	3.1900e-003	654.5190
General Office Building	39693.6	22.1078	5.2000e-004	1.1000e-004	22.1531
Health Club	533278	297.0152	7.0100e-003	1.4500e-003	297.6231
Strip Mall	36451.8	20.3023	4.8000e-004	1.0000e-004	20.3438
<b>Total</b>		<b>1,996.7908</b>	<b>0.0472</b>	<b>9.7600e-003</b>	<b>2,000.8775</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	1.6024	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961
Unmitigated	1.6024	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1336	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961
<b>Total</b>	<b>1.6024</b>	<b>0.0510</b>	<b>4.4210</b>	<b>2.3000e-004</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0245</b>	<b>0.0245</b>	<b>0.0000</b>	<b>7.2220</b>	<b>7.2220</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>7.3961</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1336	0.0510	4.4210	2.3000e-004		0.0245	0.0245		0.0245	0.0245	0.0000	7.2220	7.2220	6.9600e-003	0.0000	7.3961
<b>Total</b>	<b>1.6024</b>	<b>0.0510</b>	<b>4.4210</b>	<b>2.3000e-004</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0245</b>	<b>0.0245</b>	<b>0.0000</b>	<b>7.2220</b>	<b>7.2220</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>7.3961</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	359.7803	1.0314	0.0259	393.2739
Unmitigated	359.7803	1.0314	0.0259	393.2739

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Apartments High Rise	27.8859 / 17.5803	319.8650	0.9160	0.0230	349.6118
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.529647 / 0.324622	6.0178	0.0174	4.4000e-004	6.5827
Health Club	2.7886 / 1.70914	31.6841	0.0916	2.3000e-003	34.6581
Strip Mall	0.194811 / 0.1194	2.2134	6.4000e-003	1.6000e-004	2.4212
<b>Total</b>		<b>359.7803</b>	<b>1.0314</b>	<b>0.0259</b>	<b>393.2739</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	27.8859 / 17.5803	319.8650	0.9160	0.0230	349.6118
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.529647 / 0.324622	6.0178	0.0174	4.4000e-004	6.5827
Health Club	2.7886 / 1.70914	31.6841	0.0916	2.3000e-003	34.6581
Strip Mall	0.194811 / 0.1194	2.2134	6.4000e-003	1.6000e-004	2.4212
<b>Total</b>		<b>359.7803</b>	<b>1.0314</b>	<b>0.0259</b>	<b>393.2739</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	95.6412	5.6522	0.0000	236.9471
Unmitigated	95.6412	5.6522	0.0000	236.9471

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	196.88	39.9649	2.3619	0.0000	99.0113
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.77	0.5623	0.0332	0.0000	1.3930
Health Club	268.75	54.5538	3.2240	0.0000	135.1548
Strip Mall	2.76	0.5603	0.0331	0.0000	1.3880
<b>Total</b>		<b>95.6412</b>	<b>5.6522</b>	<b>0.0000</b>	<b>236.9471</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	196.88	39.9649	2.3619	0.0000	99.0113
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.77	0.5623	0.0332	0.0000	1.3930
Health Club	268.75	54.5538	3.2240	0.0000	135.1548
Strip Mall	2.76	0.5603	0.0331	0.0000	1.3880
<b>Total</b>		<b>95.6412</b>	<b>5.6522</b>	<b>0.0000</b>	<b>236.9471</b>

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

4th and Hill Future - Los Angeles-South Coast County, Summer

**4th and Hill 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
General Office Building	2.98	1000sqft	0.01	2,980.00	0
Enclosed Parking with Elevator	435.00	Space	0.75	174,000.00	0
Health Club	47.15	1000sqft	0.03	47,151.00	0
Apartments High Rise	428.00	Dwelling Unit	0.70	315,829.00	1224
Strip Mall	2.63	1000sqft	0.01	2,630.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<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 - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information



Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information. Assumes 21-mile haul to Puente Hills Landfill. Also assumes haul truck capacity of 10 CY per trip.

Demolition - 1,000 cubic yards of demolition material @ 1,000 pounds per cubic yard (CalRecycle data)

Grading - Developer information

Vehicle Trips - IBI Group traffic study, includes 25% discount for public transit. Accommodates both affordable housing and apartment uses

Woodstoves - Assumes no fireplaces

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	29.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	306.00
tblConstructionPhase	NumDays	200.00	578.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	32.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	1.75	2.63
tblEnergyUse	LightingElect	3.77	3.88
tblEnergyUse	LightingElect	3.10	3.20
tblEnergyUse	LightingElect	6.26	6.43
tblEnergyUse	NT24E	3,054.10	3,277.06
tblEnergyUse	T24E	164.54	194.04
tblEnergyUse	T24E	4.60	4.82
tblEnergyUse	T24E	2.25	2.36
tblEnergyUse	T24E	4.01	4.20
tblEnergyUse	T24NG	4,385.94	6,328.91

tblEnergyUse	T24NG	10.02	10.07
tblEnergyUse	T24NG	13.65	13.71
tblEnergyUse	T24NG	1.15	1.16
tblFireplaces	Number Gas	363.80	0.00
tblFireplaces	NumberNoFireplace	42.80	428.00
tblFireplaces	NumberWood	21.40	0.00
tblGrading	AcresOfGrading	24.00	0.75
tblGrading	AcresOfGrading	7.50	1.00
tblGrading	MaterialExported	0.00	48,000.00
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	47,150.00	47,151.00
tblLandUse	LandUseSquareFeet	428,000.00	315,829.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	3.91	0.75
tblLandUse	LotAcreage	1.08	0.03
tblLandUse	LotAcreage	6.90	0.70
tblLandUse	LotAcreage	0.06	0.01
tblOffRoadEquipment	HorsePower	231.00	9.00
tblOffRoadEquipment	HorsePower	16.00	81.00
tblOffRoadEquipment	HorsePower	16.00	247.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	HorsePower	124.00	247.00
tblOffRoadEquipment	HorsePower	124.00	97.00
tblOffRoadEquipment	HorsePower	13.00	84.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40

tblOffRoadEquipment	LoadFactor	0.44	0.40
tblOffRoadEquipment	LoadFactor	0.44	0.37
tblOffRoadEquipment	LoadFactor	0.30	0.74
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	49.00	100.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	4,800.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	83.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	48.00	50.00
tblTripsAndVMT	WorkerTripNumber	30.00	50.00
tblTripsAndVMT	WorkerTripNumber	68.00	200.00
tblTripsAndVMT	WorkerTripNumber	403.00	500.00
tblTripsAndVMT	WorkerTripNumber	81.00	200.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	4.20	4.97
tblVehicleTrips	WD_TR	11.03	8.26

tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	44.32	67.46
tblWoodstoves	NumberCatalytic	21.40	0.00
tblWoodstoves	NumberNoncatalytic	21.40	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					
2021	12.0661	84.6505	107.5051	0.2143	9.8461	4.4107	11.1000	3.8983	4.3182	5.8925	0.0000	20,556.508 1	20,556.508 1	1.8431	0.0000	20,598.475 4
2022	26.2761	126.4517	167.1767	0.3340	8.4646	6.1635	14.6281	2.2594	6.0514	8.3108	0.0000	31,913.250 0	31,913.250 0	2.5724	0.0000	31,977.559 0
2023	25.0399	116.4938	164.4442	0.3303	8.4646	5.3821	13.8467	2.2594	5.2814	7.5408	0.0000	31,546.609 0	31,546.609 0	2.4439	0.0000	31,607.707 1
<b>Maximum</b>	<b>26.2761</b>	<b>126.4517</b>	<b>167.1767</b>	<b>0.3340</b>	<b>9.8461</b>	<b>6.1635</b>	<b>14.6281</b>	<b>3.8983</b>	<b>6.0514</b>	<b>8.3108</b>	<b>0.0000</b>	<b>31,913.250 0</b>	<b>31,913.250 0</b>	<b>2.5724</b>	<b>0.0000</b>	<b>31,977.559 0</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					
2021	4.4847	55.8195	110.0434	0.2143	4.9755	0.8864	5.6340	1.8511	0.8204	2.4638	0.0000	20,556.508 1	20,556.508 1	1.8431	0.0000	20,598.475 4
2022	14.5786	41.4824	168.4288	0.3340	5.1257	0.7164	5.8421	1.4399	0.7063	2.1461	0.0000	31,913.249 9	31,913.249 9	2.5724	0.0000	31,977.559 0

2023	14.2772	38.5599	166.1208	0.3303	5.1257	0.6558	5.7816	1.4399	0.6469	2.0868	0.0000	31,546.609	31,546.609	2.4439	0.0000	31,607.707
												0	0			1
<b>Maximum</b>	<b>14.5786</b>	<b>55.8195</b>	<b>168.4288</b>	<b>0.3340</b>	<b>5.1257</b>	<b>0.8864</b>	<b>5.8421</b>	<b>1.8511</b>	<b>0.8204</b>	<b>2.4638</b>	<b>0.0000</b>	<b>31,913.249</b>	<b>31,913.249</b>	<b>2.5724</b>	<b>0.0000</b>	<b>31,977.559</b>
												9	9			0
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>Fugitive PM10</b>	<b>Exhaust PM10</b>	<b>PM10 Total</b>	<b>Fugitive PM2.5</b>	<b>Exhaust PM2.5</b>	<b>PM2.5 Total</b>	<b>Bio- CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b>Percent Reduction</b>	<b>47.40</b>	<b>58.53</b>	<b>-1.24</b>	<b>0.00</b>	<b>43.13</b>	<b>85.84</b>	<b>56.39</b>	<b>43.80</b>	<b>86.11</b>	<b>69.20</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	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Energy	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
Mobile	3.7805	15.6119	51.4708	0.1945	16.3337	0.1421	16.4758	4.3710	0.1322	4.5032		19,811.959	19,811.959	0.9444		19,835.569
												9	9			3
<b>Total</b>	<b>13.0650</b>	<b>17.4649</b>	<b>87.5534</b>	<b>0.2055</b>	<b>16.3337</b>	<b>0.4535</b>	<b>16.7872</b>	<b>4.3710</b>	<b>0.4436</b>	<b>4.8145</b>	<b>0.0000</b>	<b>21,702.629</b>	<b>21,702.629</b>	<b>1.0408</b>	<b>0.0335</b>	<b>21,738.631</b>
												8	8			6

### 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	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Energy	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396

Mobile	3.7805	15.6119	51.4708	0.1945	16.3337	0.1421	16.4758	4.3710	0.1322	4.5032		19,811.959	19,811.959	0.9444		19,835.569
												9	9			3
<b>Total</b>	<b>13.0650</b>	<b>17.4649</b>	<b>87.5534</b>	<b>0.2055</b>	<b>16.3337</b>	<b>0.4535</b>	<b>16.7872</b>	<b>4.3710</b>	<b>0.4436</b>	<b>4.8145</b>	<b>0.0000</b>	<b>21,702.629</b>	<b>21,702.629</b>	<b>1.0408</b>	<b>0.0335</b>	<b>21,738.631</b>
												8	8			6

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/9/2021	5	7	
2	Site Preparation	Site Preparation	3/11/2021	3/31/2021	5	15	
3	Grading	Grading	4/1/2021	5/14/2021	5	32	
4	Building Construction	Building Construction	5/16/2021	8/2/2023	5	578	
5	Architectural Coating	Architectural Coating	5/1/2022	7/3/2023	5	306	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0.75

Residential Indoor: 639,554; Residential Outdoor: 213,185; Non-Residential Indoor: 79,142; Non-Residential Outdoor: 26,381; Striped Parking

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Dumpers/Tenders	10	8.00	81	0.73
Demolition	Off-Highway Tractors	1	8.00	247	0.40
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Signal Boards	2	8.00	97	0.37
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46

Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Site Preparation	Excavators	1	7.00	247	0.40
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Tractors	1	8.00	124	0.44
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Signal Boards	2	8.00	6	0.82
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Trenchers	2	8.00	78	0.50
Grading	Dumpers/Tenders	19	6.00	247	0.40
Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Tractors	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Signal Boards	2	8.00	6	0.82
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	3	6.00	63	0.31
Building Construction	Air Compressors	10	6.00	78	0.48
Building Construction	Cement and Mortar Mixers	4	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	5	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	5	8.00	84	0.74
Building Construction	Signal Boards	2	6.00	97	0.37
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	2	8.00	78	0.50
Building Construction	Welders	5	8.00	46	0.45



Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	10	6.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Concrete/Industrial Saws	5	8.00	81	0.73
Architectural Coating	Cranes	1	6.00	9	0.56
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Pressure Washers	5	6.00	13	0.30
Architectural Coating	Signal Boards	2	8.00	6	0.82
Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Architectural Coating	Welders	5	6.00	46	0.45

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	19	50.00	0.00	100.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	27	200.00	20.00	4,800.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Building Construction	43	500.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	39	200.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					1.5285	0.0000	1.5285	0.2314	0.0000	0.2314			0.0000			0.0000
Off-Road	3.0291	29.0939	22.8901	0.0427		1.5233	1.5233		1.4317	1.4317		4,109.0883	4,109.0883	0.9795		4,133.5764
<b>Total</b>	<b>3.0291</b>	<b>29.0939</b>	<b>22.8901</b>	<b>0.0427</b>	<b>1.5285</b>	<b>1.5233</b>	<b>3.0518</b>	<b>0.2314</b>	<b>1.4317</b>	<b>1.6631</b>		<b>4,109.0883</b>	<b>4,109.0883</b>	<b>0.9795</b>		<b>4,133.5764</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1239	3.9571	0.9352	0.0116	0.2623	0.0123	0.2746	0.0719	0.0118	0.0837		1,261.5040	1,261.5040	0.0851		1,263.6303
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	0.2143	0.1473	2.0139	5.7200e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		569.3849	569.3849	0.0168		569.8044
<b>Total</b>	<b>0.3383</b>	<b>4.1044</b>	<b>2.9491</b>	<b>0.0174</b>	<b>0.8212</b>	<b>0.0168</b>	<b>0.8380</b>	<b>0.2201</b>	<b>0.0160</b>	<b>0.2361</b>		<b>1,830.8889</b>	<b>1,830.8889</b>	<b>0.1018</b>		<b>1,833.4346</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5663	0.0000	0.5663	0.0857	0.0000	0.0857			0.0000			0.0000
Off-Road	1.8741	18.5805	25.1368	0.0427		0.8696	0.8696		0.8045	0.8045	0.0000	4,109.0883	4,109.0883	0.9795		4,133.5764

<b>Total</b>	<b>1.8741</b>	<b>18.5805</b>	<b>25.1368</b>	<b>0.0427</b>	<b>0.5663</b>	<b>0.8696</b>	<b>1.4359</b>	<b>0.0857</b>	<b>0.8045</b>	<b>0.8902</b>	<b>0.0000</b>	<b>4,109.0883</b>	<b>4,109.0883</b>	<b>0.9795</b>		<b>4,133.5764</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1239	3.9571	0.9352	0.0116	0.1710	0.0123	0.1834	0.0495	0.0118	0.0613		1,261.5040	1,261.5040	0.0851		1,263.6303
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	0.2143	0.1473	2.0139	5.7200e-003	0.3354	4.5200e-003	0.3399	0.0934	4.1600e-003	0.0975		569.3849	569.3849	0.0168		569.8044
<b>Total</b>	<b>0.3383</b>	<b>4.1044</b>	<b>2.9491</b>	<b>0.0174</b>	<b>0.5064</b>	<b>0.0168</b>	<b>0.5233</b>	<b>0.1429</b>	<b>0.0160</b>	<b>0.1588</b>		<b>1,830.8889</b>	<b>1,830.8889</b>	<b>0.1018</b>		<b>1,833.4346</b>

**3.3 Site Preparation - 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					
Fugitive Dust					5.3400	0.0000	5.3400	2.9041	0.0000	2.9041			0.0000			0.0000
Off-Road	3.6775	38.4260	24.2543	0.0589		1.8413	1.8413		1.6963	1.6963		5,663.7236	5,663.7236	1.8101		5,708.9762
<b>Total</b>	<b>3.6775</b>	<b>38.4260</b>	<b>24.2543</b>	<b>0.0589</b>	<b>5.3400</b>	<b>1.8413</b>	<b>7.1814</b>	<b>2.9041</b>	<b>1.6963</b>	<b>4.6003</b>		<b>5,663.7236</b>	<b>5,663.7236</b>	<b>1.8101</b>		<b>5,708.9762</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	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203		274.8806	274.8806	0.0162		275.2855
Worker	0.2143	0.1473	2.0139	5.7200e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		569.3849	569.3849	0.0168		569.8044
<b>Total</b>	<b>0.2447</b>	<b>1.1182</b>	<b>2.2677</b>	<b>8.2900e-003</b>	<b>0.6229</b>	<b>6.5100e-003</b>	<b>0.6294</b>	<b>0.1667</b>	<b>6.0600e-003</b>	<b>0.1727</b>		<b>844.2656</b>	<b>844.2656</b>	<b>0.0330</b>		<b>845.0898</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					1.9785	0.0000	1.9785	1.0760	0.0000	1.0760			0.0000			0.0000
Off-Road	1.6880	15.0107	31.2824	0.0589		0.6377	0.6377		0.5929	0.5929	0.0000	5,663.7235	5,663.7235	1.8101		5,708.9762
<b>Total</b>	<b>1.6880</b>	<b>15.0107</b>	<b>31.2824</b>	<b>0.0589</b>	<b>1.9785</b>	<b>0.6377</b>	<b>2.6161</b>	<b>1.0760</b>	<b>0.5929</b>	<b>1.6688</b>	<b>0.0000</b>	<b>5,663.7235</b>	<b>5,663.7235</b>	<b>1.8101</b>		<b>5,708.9762</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0430	1.9900e-003	0.0450	0.0133	1.9000e-003	0.0152		274.8806	274.8806	0.0162		275.2855
Worker	0.2143	0.1473	2.0139	5.7200e-003	0.3354	4.5200e-003	0.3399	0.0934	4.1600e-003	0.0975		569.3849	569.3849	0.0168		569.8044
<b>Total</b>	<b>0.2447</b>	<b>1.1182</b>	<b>2.2677</b>	<b>8.2900e-003</b>	<b>0.3784</b>	<b>6.5100e-003</b>	<b>0.3849</b>	<b>0.1066</b>	<b>6.0600e-003</b>	<b>0.1127</b>		<b>844.2656</b>	<b>844.2656</b>	<b>0.0330</b>		<b>845.0898</b>

### 3.4 Grading - 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					
Fugitive Dust					4.7287	0.0000	4.7287	2.5137	0.0000	2.5137			0.0000			0.0000
Off-Road	2.1901	23.6399	12.2828	0.0257		1.1025	1.1025		1.0165	1.0165		2,453.9500	2,453.9500	0.7720		2,473.2500
<b>Total</b>	<b>2.1901</b>	<b>23.6399</b>	<b>12.2828</b>	<b>0.0257</b>	<b>4.7287</b>	<b>1.1025</b>	<b>5.8312</b>	<b>2.5137</b>	<b>1.0165</b>	<b>3.5303</b>		<b>2,453.9500</b>	<b>2,453.9500</b>	<b>0.7720</b>		<b>2,473.2500</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	1.3014	41.5494	9.8200	0.1221	2.7538	0.1294	2.8832	0.7549	0.1238	0.8787		13,245.7917	13,245.7917	0.8931		13,268.1179
Vendor	0.0608	1.9418	0.5076	5.1400e-003	0.1280	3.9700e-003	0.1320	0.0369	3.8000e-003	0.0407		549.7613	549.7613	0.0324		550.5710
Worker	0.8573	0.5893	8.0555	0.0229	2.2355	0.0181	2.2536	0.5929	0.0166	0.6095		2,277.5397	2,277.5397	0.0671		2,279.2174
<b>Total</b>	<b>2.2195</b>	<b>44.0805</b>	<b>18.3831</b>	<b>0.1501</b>	<b>5.1174</b>	<b>0.1514</b>	<b>5.2688</b>	<b>1.3846</b>	<b>0.1443</b>	<b>1.5288</b>		<b>16,073.0926</b>	<b>16,073.0926</b>	<b>0.9926</b>		<b>16,097.9063</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					1.7520	0.0000	1.7520	0.9313	0.0000	0.9313			0.0000			0.0000
Off-Road	1.1450	11.7390	13.4503	0.0257		0.5070	0.5070		0.4685	0.4685	0.0000	2,453.9500	2,453.9500	0.7720		2,473.2500
<b>Total</b>	<b>1.1450</b>	<b>11.7390</b>	<b>13.4503</b>	<b>0.0257</b>	<b>1.7520</b>	<b>0.5070</b>	<b>2.2590</b>	<b>0.9313</b>	<b>0.4685</b>	<b>1.3998</b>	<b>0.0000</b>	<b>2,453.9500</b>	<b>2,453.9500</b>	<b>0.7720</b>		<b>2,473.2500</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	1.3014	41.5494	9.8200	0.1221	1.7959	0.1294	1.9253	0.5197	0.1238	0.6435		13,245.7917	13,245.7917	0.8931		13,268.1179
Vendor	0.0608	1.9418	0.5076	5.1400e-003	0.0861	3.9700e-003	0.0901	0.0266	3.8000e-003	0.0304		549.7613	549.7613	0.0324		550.5710
Worker	0.8573	0.5893	8.0555	0.0229	1.3415	0.0181	1.3596	0.3734	0.0166	0.3901		2,277.5397	2,277.5397	0.0671		2,279.2174
<b>Total</b>	<b>2.2195</b>	<b>44.0805</b>	<b>18.3831</b>	<b>0.1501</b>	<b>3.2235</b>	<b>0.1514</b>	<b>3.3750</b>	<b>0.9197</b>	<b>0.1443</b>	<b>1.0640</b>		<b>16,073.0926</b>	<b>16,073.0926</b>	<b>0.9926</b>		<b>16,097.9063</b>

**3.5 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	9.7708	78.3228	86.0973	0.1442		4.3556	4.3556		4.2671	4.2671		13,488.2557	13,488.2557	1.4300		13,524.0045
<b>Total</b>	<b>9.7708</b>	<b>78.3228</b>	<b>86.0973</b>	<b>0.1442</b>		<b>4.3556</b>	<b>4.3556</b>		<b>4.2671</b>	<b>4.2671</b>		<b>13,488.2557</b>	<b>13,488.2557</b>	<b>1.4300</b>		<b>13,524.0045</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	0.1520	4.8545	1.2691	0.0129	0.3201	9.9300e-003	0.3300	0.0922	9.4900e-003	0.1017		1,374.4032	1,374.4032	0.0810		1,376.4274
Worker	2.1433	1.4732	20.1387	0.0572	5.5888	0.0452	5.6340	1.4822	0.0416	1.5238		5,693.8493	5,693.8493	0.1678		5,698.0435
<b>Total</b>	<b>2.2953</b>	<b>6.3277</b>	<b>21.4078</b>	<b>0.0700</b>	<b>5.9089</b>	<b>0.0551</b>	<b>5.9640</b>	<b>1.5743</b>	<b>0.0511</b>	<b>1.6254</b>		<b>7,068.2524</b>	<b>7,068.2524</b>	<b>0.2487</b>		<b>7,074.4709</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	2.1894	19.4170	88.6357	0.1442		0.5026	0.5026		0.4970	0.4970	0.0000	13,488.2557	13,488.2557	1.4300		13,524.0045
												7	7			5

<b>Total</b>	<b>2.1894</b>	<b>19.4170</b>	<b>88.6357</b>	<b>0.1442</b>		<b>0.5026</b>	<b>0.5026</b>		<b>0.4970</b>	<b>0.4970</b>	<b>0.0000</b>	<b>13,488.255</b>	<b>13,488.255</b>	<b>1.4300</b>		<b>13,524.004</b>
												<b>7</b>	<b>7</b>			<b>5</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	0.1520	4.8545	1.2691	0.0129	0.2152	9.9300e-003	0.2251	0.0664	9.4900e-003	0.0759		1,374.4032	1,374.4032	0.0810		1,376.4274
Worker	2.1433	1.4732	20.1387	0.0572	3.3538	0.0452	3.3990	0.9336	0.0416	0.9752		5,693.8493	5,693.8493	0.1678		5,698.0435
<b>Total</b>	<b>2.2953</b>	<b>6.3277</b>	<b>21.4078</b>	<b>0.0700</b>	<b>3.5690</b>	<b>0.0551</b>	<b>3.6241</b>	<b>1.0000</b>	<b>0.0511</b>	<b>1.0511</b>		<b>7,068.2524</b>	<b>7,068.2524</b>	<b>0.2487</b>		<b>7,074.4709</b>

**3.5 Building Construction - 2022**

**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	9.0260	72.5953	85.6697	0.1442		3.8031	3.8031		3.7248	3.7248		13,488.632	13,488.632	1.3837		13,523.225
												<b>4</b>	<b>4</b>			<b>7</b>
<b>Total</b>	<b>9.0260</b>	<b>72.5953</b>	<b>85.6697</b>	<b>0.1442</b>		<b>3.8031</b>	<b>3.8031</b>		<b>3.7248</b>	<b>3.7248</b>		<b>13,488.632</b>	<b>13,488.632</b>	<b>1.3837</b>		<b>13,523.225</b>
												<b>4</b>	<b>4</b>			<b>7</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	0.1426	4.6165	1.2008	0.0127	0.3201	8.6800e-003	0.3288	0.0922	8.3000e-003	0.1005		1,362.4294	1,362.4294	0.0782		1,364.3841
Worker	2.0076	1.3307	18.5801	0.0551	5.5888	0.0438	5.6326	1.4822	0.0403	1.5225		5,493.5616	5,493.5616	0.1516		5,497.3522
<b>Total</b>	<b>2.1503</b>	<b>5.9472</b>	<b>19.7809</b>	<b>0.0679</b>	<b>5.9089</b>	<b>0.0524</b>	<b>5.9614</b>	<b>1.5744</b>	<b>0.0486</b>	<b>1.6230</b>		<b>6,855.9910</b>	<b>6,855.9910</b>	<b>0.2298</b>		<b>6,861.7363</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	2.1342	18.9220	88.6081	0.1442		0.4567	0.4567		0.4522	0.4522	0.0000	13,488.6324	13,488.6324	1.3837		13,523.2257
<b>Total</b>	<b>2.1342</b>	<b>18.9220</b>	<b>88.6081</b>	<b>0.1442</b>		<b>0.4567</b>	<b>0.4567</b>		<b>0.4522</b>	<b>0.4522</b>	<b>0.0000</b>	<b>13,488.6324</b>	<b>13,488.6324</b>	<b>1.3837</b>		<b>13,523.2257</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1426	4.6165	1.2008	0.0127	0.2152	8.6800e-003	0.2239	0.0664	8.3000e-003	0.0747		1,362.4294	1,362.4294	0.0782		1,364.3841
Worker	2.0076	1.3307	18.5801	0.0551	3.3538	0.0438	3.3975	0.9336	0.0403	0.9739		5,493.5616	5,493.5616	0.1516		5,497.3522
<b>Total</b>	<b>2.1503</b>	<b>5.9472</b>	<b>19.7809</b>	<b>0.0679</b>	<b>3.5690</b>	<b>0.0524</b>	<b>3.6214</b>	<b>1.0000</b>	<b>0.0486</b>	<b>1.0486</b>		<b>6,855.9910</b>	<b>6,855.9910</b>	<b>0.2298</b>		<b>6,861.7363</b>

### 3.5 Building Construction - 2023

#### 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	8.4168	67.7955	85.3883	0.1443		3.3319	3.3319		3.2608	3.2608		13,489.3833	13,489.3833	1.3330		13,522.7070
<b>Total</b>	<b>8.4168</b>	<b>67.7955</b>	<b>85.3883</b>	<b>0.1443</b>		<b>3.3319</b>	<b>3.3319</b>		<b>3.2608</b>	<b>3.2608</b>		<b>13,489.3833</b>	<b>13,489.3833</b>	<b>1.3330</b>		<b>13,522.7070</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	0.1058	3.5028	1.0844	0.0123	0.3201	4.0500e-003	0.3242	0.0922	3.8700e-003	0.0960		1,319.5371	1,319.5371	0.0693		1,321.2692
Worker	1.8853	1.2040	17.1107	0.0531	5.5888	0.0425	5.6313	1.4822	0.0391	1.5213		5,292.4100	5,292.4100	0.1367		5,295.8277
<b>Total</b>	<b>1.9911</b>	<b>4.7068</b>	<b>18.1951</b>	<b>0.0654</b>	<b>5.9089</b>	<b>0.0466</b>	<b>5.9555</b>	<b>1.5744</b>	<b>0.0430</b>	<b>1.6174</b>		<b>6,611.9471</b>	<b>6,611.9471</b>	<b>0.2060</b>		<b>6,617.0969</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	2.0897	18.5127	88.5937	0.1443		0.4181	0.4181		0.4143	0.4143	0.0000	13,489.3833	13,489.3833	1.3330		13,522.7070
<b>Total</b>	<b>2.0897</b>	<b>18.5127</b>	<b>88.5937</b>	<b>0.1443</b>		<b>0.4181</b>	<b>0.4181</b>		<b>0.4143</b>	<b>0.4143</b>	<b>0.0000</b>	<b>13,489.3833</b>	<b>13,489.3833</b>	<b>1.3330</b>		<b>13,522.7070</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	0.1058	3.5028	1.0844	0.0123	0.2152	4.0500e-003	0.2193	0.0664	3.8700e-003	0.0703		1,319.5371	1,319.5371	0.0693		1,321.2692
Worker	1.8853	1.2040	17.1107	0.0531	3.3538	0.0425	3.3963	0.9336	0.0391	0.9727		5,292.4100	5,292.4100	0.1367		5,295.8277
<b>Total</b>	<b>1.9911</b>	<b>4.7068</b>	<b>18.1951</b>	<b>0.0654</b>	<b>3.5690</b>	<b>0.0466</b>	<b>3.6156</b>	<b>1.0000</b>	<b>0.0430</b>	<b>1.0430</b>		<b>6,611.9471</b>	<b>6,611.9471</b>	<b>0.2060</b>		<b>6,617.0969</b>

**3.6 Architectural Coating - 2022**

**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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	5.9394	42.7604	53.0933	0.0871		2.2818	2.2818		2.2535	2.2535		8,008.7725	8,008.7725	0.8200		8,029.2721
<b>Total</b>	<b>14.1542</b>	<b>42.7604</b>	<b>53.0933</b>	<b>0.0871</b>		<b>2.2818</b>	<b>2.2818</b>		<b>2.2535</b>	<b>2.2535</b>		<b>8,008.7725</b>	<b>8,008.7725</b>	<b>0.8200</b>		<b>8,029.2721</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	0.1426	4.6165	1.2008	0.0127	0.3201	8.6800e-003	0.3288	0.0922	8.3000e-003	0.1005		1,362.4294	1,362.4294	0.0782		1,364.3841
Worker	0.8031	0.5323	7.4321	0.0221	2.2355	0.0175	2.2530	0.5929	0.0161	0.6090		2,197.4246	2,197.4246	0.0607		2,198.9409
<b>Total</b>	<b>0.9457</b>	<b>5.1488</b>	<b>8.6328</b>	<b>0.0348</b>	<b>2.5556</b>	<b>0.0262</b>	<b>2.5818</b>	<b>0.6850</b>	<b>0.0244</b>	<b>0.7095</b>		<b>3,559.8541</b>	<b>3,559.8541</b>	<b>0.1388</b>		<b>3,563.3249</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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.1337	11.4644	51.4069	0.0871		0.1811	0.1811		0.1811	0.1811	0.0000	8,008.7725	8,008.7725	0.8200		8,029.2721

<b>Total</b>	<b>9.3484</b>	<b>11.4644</b>	<b>51.4069</b>	<b>0.0871</b>		<b>0.1811</b>	<b>0.1811</b>		<b>0.1811</b>	<b>0.1811</b>	<b>0.0000</b>	<b>8,008.7725</b>	<b>8,008.7725</b>	<b>0.8200</b>		<b>8,029.2721</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1426	4.6165	1.2008	0.0127	0.2152	8.6800e-003	0.2239	0.0664	8.3000e-003	0.0747		1,362.4294	1,362.4294	0.0782		1,364.3841
Worker	0.8031	0.5323	7.4321	0.0221	1.3415	0.0175	1.3590	0.3734	0.0161	0.3896		2,197.4246	2,197.4246	0.0607		2,198.9409
<b>Total</b>	<b>0.9457</b>	<b>5.1488</b>	<b>8.6328</b>	<b>0.0348</b>	<b>1.5567</b>	<b>0.0262</b>	<b>1.5829</b>	<b>0.4399</b>	<b>0.0244</b>	<b>0.4643</b>		<b>3,559.8541</b>	<b>3,559.8541</b>	<b>0.1388</b>		<b>3,563.3249</b>

**3.6 Architectural Coating - 2023**

**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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	5.5574	40.0070	52.9321	0.0871		1.9826	1.9826		1.9580	1.9580		8,008.7775	8,008.7775	0.7810		8,028.3028
<b>Total</b>	<b>13.7721</b>	<b>40.0070</b>	<b>52.9321</b>	<b>0.0871</b>		<b>1.9826</b>	<b>1.9826</b>		<b>1.9580</b>	<b>1.9580</b>		<b>8,008.7775</b>	<b>8,008.7775</b>	<b>0.7810</b>		<b>8,028.3028</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	0.1058	3.5028	1.0844	0.0123	0.3201	4.0500e-003	0.3242	0.0922	3.8700e-003	0.0960		1,319.5371	1,319.5371	0.0693		1,321.2692
Worker	0.7541	0.4816	6.8443	0.0212	2.2355	0.0170	2.2525	0.5929	0.0157	0.6085		2,116.9640	2,116.9640	0.0547		2,118.3311
<b>Total</b>	<b>0.8599</b>	<b>3.9844</b>	<b>7.9287</b>	<b>0.0336</b>	<b>2.5557</b>	<b>0.0211</b>	<b>2.5767</b>	<b>0.6850</b>	<b>0.0195</b>	<b>0.7046</b>		<b>3,436.5011</b>	<b>3,436.5011</b>	<b>0.1240</b>		<b>3,439.6003</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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.1217	11.3560	51.4033	0.0871		0.1701	0.1701		0.1701	0.1701	0.0000	8,008.7775	8,008.7775	0.7810		8,028.3028
<b>Total</b>	<b>9.3364</b>	<b>11.3560</b>	<b>51.4033</b>	<b>0.0871</b>		<b>0.1701</b>	<b>0.1701</b>		<b>0.1701</b>	<b>0.1701</b>	<b>0.0000</b>	<b>8,008.7775</b>	<b>8,008.7775</b>	<b>0.7810</b>		<b>8,028.3028</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1058	3.5028	1.0844	0.0123	0.2152	4.0500e-003	0.2193	0.0664	3.8700e-003	0.0703		1,319.5371	1,319.5371	0.0693	1,321.2692
Worker	0.7541	0.4816	6.8443	0.0212	1.3415	0.0170	1.3585	0.3734	0.0157	0.3891		2,116.9640	2,116.9640	0.0547	2,118.3311
<b>Total</b>	<b>0.8599</b>	<b>3.9844</b>	<b>7.9287</b>	<b>0.0336</b>	<b>1.5567</b>	<b>0.0211</b>	<b>1.5778</b>	<b>0.4399</b>	<b>0.0195</b>	<b>0.4594</b>		<b>3,436.5011</b>	<b>3,436.5011</b>	<b>0.1240</b>	<b>3,439.6003</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	3.7805	15.6119	51.4708	0.1945	16.3337	0.1421	16.4758	4.3710	0.1322	4.5032		19,811.9599	19,811.9599	0.9444		19,835.5693
Unmitigated	3.7805	15.6119	51.4708	0.1945	16.3337	0.1421	16.4758	4.3710	0.1322	4.5032		19,811.9599	19,811.9599	0.9444		19,835.5693

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	2,127.16	2,127.16	1562.20	6,988,804	6,988,804
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	24.61	7.33	3.13	61,453	61,453
Health Club	0.00	0.00	0.00		
Strip Mall	177.42	110.57	53.73	285,768	285,768
<b>Total</b>	<b>2,329.19</b>	<b>2,245.06</b>	<b>1,619.06</b>	<b>7,336,026</b>	<b>7,336,026</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
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Health Club	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Natural Gas Mitigated	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
Natural Gas Unmitigated	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396



## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13086.1	0.1411	1.2060	0.5132	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.5460	1,539.5460	0.0295	0.0282	1,548.6948
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	85.3995	9.2000e-004	8.3700e-003	7.0300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0470	10.0470	1.9000e-004	1.8000e-004	10.1067
Health Club	2345.92	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		275.9910	275.9910	5.2900e-003	5.0600e-003	277.6311
Strip Mall	11.889	1.3000e-004	1.1700e-003	9.8000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.3987	1.3987	3.0000e-005	3.0000e-005	1.4070
<b>Total</b>		<b>0.1675</b>	<b>1.4455</b>	<b>0.7144</b>	<b>9.1400e-003</b>		<b>0.1157</b>	<b>0.1157</b>		<b>0.1157</b>	<b>0.1157</b>		<b>1,826.9827</b>	<b>1,826.9827</b>	<b>0.0350</b>	<b>0.0335</b>	<b>1,837.8396</b>

### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13.0861	0.1411	1.2060	0.5132	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.5460	1,539.5460	0.0295	0.0282	1,548.6948
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.0853995	9.2000e-004	8.3700e-003	7.0300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0470	10.0470	1.9000e-004	1.8000e-004	10.1067
Health Club	2.34592	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		275.9910	275.9910	5.2900e-003	5.0600e-003	277.6311
Strip Mall	0.011889	1.3000e-004	1.1700e-003	9.8000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.3987	1.3987	3.0000e-005	3.0000e-005	1.4070

Total		0.1675	1.4455	0.7144	9.1400e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
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## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Unmitigated	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226

### 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	0.6887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0686	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957		63.6871	63.6871	0.0614		65.2226

<b>Total</b>	<b>9.1170</b>	<b>0.4076</b>	<b>35.3682</b>	<b>1.8700e-003</b>		<b>0.1957</b>	<b>0.1957</b>		<b>0.1957</b>	<b>0.1957</b>	<b>0.0000</b>	<b>63.6871</b>	<b>63.6871</b>	<b>0.0614</b>	<b>0.0000</b>	<b>65.2226</b>
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**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	0.6887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0686	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957		63.6871	63.6871	0.0614		65.2226
<b>Total</b>	<b>9.1170</b>	<b>0.4076</b>	<b>35.3682</b>	<b>1.8700e-003</b>		<b>0.1957</b>	<b>0.1957</b>		<b>0.1957</b>	<b>0.1957</b>	<b>0.0000</b>	<b>63.6871</b>	<b>63.6871</b>	<b>0.0614</b>	<b>0.0000</b>	<b>65.2226</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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4th and Hill Future - Los Angeles-South Coast County, Winter

**4th and Hill 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
General Office Building	2.98	1000sqft	0.01	2,980.00	0
Enclosed Parking with Elevator	435.00	Space	0.75	174,000.00	0
Health Club	47.15	1000sqft	0.03	47,151.00	0
Apartments High Rise	428.00	Dwelling Unit	0.70	315,829.00	1224
Strip Mall	2.63	1000sqft	0.01	2,630.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<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 - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Off-road Equipment - Developer information

Trips and VMT - Developer information. Assumes 21-mile haul to Puente Hills Landfill. Also assumes haul truck capacity of 10 CY per trip.

Demolition - 1,000 cubic yards of demolition material @ 1,000 pounds per cubic yard (CalRecycle data)

Grading - Developer information

Vehicle Trips - IBI Group traffic study, includes 25% discount for public transit. Accommodates both affordable housing and apartment uses

Woodstoves - Assumes no fireplaces

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	46
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	29.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	306.00
tblConstructionPhase	NumDays	200.00	578.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	32.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	1.75	2.63
tblEnergyUse	LightingElect	3.77	3.88
tblEnergyUse	LightingElect	3.10	3.20
tblEnergyUse	LightingElect	6.26	6.43
tblEnergyUse	NT24E	3,054.10	3,277.06
tblEnergyUse	T24E	164.54	194.04
tblEnergyUse	T24E	4.60	4.82
tblEnergyUse	T24E	2.25	2.36
tblEnergyUse	T24E	4.01	4.20
tblEnergyUse	T24NG	4,385.94	6,328.91

tblEnergyUse	T24NG	10.02	10.07
tblEnergyUse	T24NG	13.65	13.71
tblEnergyUse	T24NG	1.15	1.16
tblFireplaces	Number Gas	363.80	0.00
tblFireplaces	NumberNoFireplace	42.80	428.00
tblFireplaces	NumberWood	21.40	0.00
tblGrading	AcresOfGrading	24.00	0.75
tblGrading	AcresOfGrading	7.50	1.00
tblGrading	MaterialExported	0.00	48,000.00
tblGrading	MaterialImported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	47,150.00	47,151.00
tblLandUse	LandUseSquareFeet	428,000.00	315,829.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	3.91	0.75
tblLandUse	LotAcreage	1.08	0.03
tblLandUse	LotAcreage	6.90	0.70
tblLandUse	LotAcreage	0.06	0.01
tblOffRoadEquipment	HorsePower	231.00	9.00
tblOffRoadEquipment	HorsePower	16.00	81.00
tblOffRoadEquipment	HorsePower	16.00	247.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	HorsePower	124.00	247.00
tblOffRoadEquipment	HorsePower	124.00	97.00
tblOffRoadEquipment	HorsePower	13.00	84.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	HorsePower	6.00	97.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40



tblOffRoadEquipment	LoadFactor	0.44	0.40
tblOffRoadEquipment	LoadFactor	0.44	0.37
tblOffRoadEquipment	LoadFactor	0.30	0.74
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	LoadFactor	0.82	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripLength	20.00	21.00
tblTripsAndVMT	HaulingTripNumber	49.00	100.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	4,800.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	83.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	48.00	50.00
tblTripsAndVMT	WorkerTripNumber	30.00	50.00
tblTripsAndVMT	WorkerTripNumber	68.00	200.00
tblTripsAndVMT	WorkerTripNumber	403.00	500.00
tblTripsAndVMT	WorkerTripNumber	81.00	200.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	4.20	4.97
tblVehicleTrips	WD_TR	11.03	8.26

tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	44.32	67.46
tblWoodstoves	NumberCatalytic	21.40	0.00
tblWoodstoves	NumberNoncatalytic	21.40	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					
2021	12.3145	84.7980	105.9140	0.2106	9.8461	4.4110	11.1020	3.8983	4.3185	5.8928	0.0000	20,186.2388	20,186.2388	1.8431	0.0000	20,228.0890
2022	26.6146	126.6254	165.1630	0.3288	8.4646	6.1641	14.6286	2.2594	6.0519	8.3113	0.0000	31,389.0938	31,389.0938	2.5696	0.0000	31,453.3352
2023	25.3648	116.6412	162.5058	0.3253	8.4646	5.3825	13.8471	2.2594	5.2818	7.5412	0.0000	31,042.6179	31,042.6179	2.4401	0.0000	31,103.6207
<b>Maximum</b>	<b>26.6146</b>	<b>126.6254</b>	<b>165.1630</b>	<b>0.3288</b>	<b>9.8461</b>	<b>6.1641</b>	<b>14.6286</b>	<b>3.8983</b>	<b>6.0519</b>	<b>8.3113</b>	<b>0.0000</b>	<b>31,389.0938</b>	<b>31,389.0938</b>	<b>2.5696</b>	<b>0.0000</b>	<b>31,453.3352</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					
2021	4.7330	56.4227	108.4523	0.2106	4.9755	0.8866	5.6360	1.8511	0.8206	2.4657	0.0000	20,186.2388	20,186.2388	1.8431	0.0000	20,228.0890
2022	14.9171	41.6561	166.4151	0.3288	5.1257	0.7170	5.8427	1.4399	0.7068	2.1467	0.0000	31,389.0938	31,389.0938	2.5696	0.0000	31,453.3351

2023	14.6021	38.7073	164.1823	0.3253	5.1257	0.6562	5.7820	1.4399	0.6473	2.0872	0.0000	31,042.6179	31,042.6179	2.4401	0.0000	31,103.6207
<b>Maximum</b>	<b>14.9171</b>	<b>56.4227</b>	<b>166.4151</b>	<b>0.3288</b>	<b>5.1257</b>	<b>0.8866</b>	<b>5.8427</b>	<b>1.8511</b>	<b>0.8206</b>	<b>2.4657</b>	<b>0.0000</b>	<b>31,389.0938</b>	<b>31,389.0938</b>	<b>2.5696</b>	<b>0.0000</b>	<b>31,453.3351</b>
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>Fugitive PM10</b>	<b>Exhaust PM10</b>	<b>PM10 Total</b>	<b>Fugitive PM2.5</b>	<b>Exhaust PM2.5</b>	<b>PM2.5 Total</b>	<b>Bio- CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b>Percent Reduction</b>	<b>46.73</b>	<b>58.31</b>	<b>-1.26</b>	<b>0.00</b>	<b>43.13</b>	<b>85.84</b>	<b>56.39</b>	<b>43.80</b>	<b>86.11</b>	<b>69.19</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	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Energy	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
Mobile	3.6614	16.0054	48.7288	0.1851	16.3337	0.1427	16.4764	4.3710	0.1328	4.5038		18,862.3757	18,862.3757	0.9404		18,885.8862
<b>Total</b>	<b>12.9459</b>	<b>17.8585</b>	<b>84.8114</b>	<b>0.1961</b>	<b>16.3337</b>	<b>0.4541</b>	<b>16.7878</b>	<b>4.3710</b>	<b>0.4442</b>	<b>4.8151</b>	<b>0.0000</b>	<b>20,753.0455</b>	<b>20,753.0455</b>	<b>1.0369</b>	<b>0.0335</b>	<b>20,788.9484</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	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Energy	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396

Mobile	3.6614	16.0054	48.7288	0.1851	16.3337	0.1427	16.4764	4.3710	0.1328	4.5038		18,862.375	18,862.375	0.9404		18,885.886
												7	7			2
<b>Total</b>	<b>12.9459</b>	<b>17.8585</b>	<b>84.8114</b>	<b>0.1961</b>	<b>16.3337</b>	<b>0.4541</b>	<b>16.7878</b>	<b>4.3710</b>	<b>0.4442</b>	<b>4.8151</b>	<b>0.0000</b>	<b>20,753.045</b>	<b>20,753.045</b>	<b>1.0369</b>	<b>0.0335</b>	<b>20,788.948</b>
												5	5			4

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/9/2021	5	7	
2	Site Preparation	Site Preparation	3/11/2021	3/31/2021	5	15	
3	Grading	Grading	4/1/2021	5/14/2021	5	32	
4	Building Construction	Building Construction	5/16/2021	8/2/2023	5	578	
5	Architectural Coating	Architectural Coating	5/1/2022	7/3/2023	5	306	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0.75

Residential Indoor: 639,554; Residential Outdoor: 213,185; Non-Residential Indoor: 79,142; Non-Residential Outdoor: 26,381; Striped Parking

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Dumpers/Tenders	10	8.00	81	0.73
Demolition	Off-Highway Tractors	1	8.00	247	0.40
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Signal Boards	2	8.00	97	0.37
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46

Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Site Preparation	Excavators	1	7.00	247	0.40
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Tractors	1	8.00	124	0.44
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Signal Boards	2	8.00	6	0.82
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Trenchers	2	8.00	78	0.50
Grading	Dumpers/Tenders	19	6.00	247	0.40
Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Tractors	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Signal Boards	2	8.00	6	0.82
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	3	6.00	63	0.31
Building Construction	Air Compressors	10	6.00	78	0.48
Building Construction	Cement and Mortar Mixers	4	6.00	9	0.56
Building Construction	Concrete/Industrial Saws	5	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	5	8.00	84	0.74
Building Construction	Signal Boards	2	6.00	97	0.37
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Trenchers	2	8.00	78	0.50
Building Construction	Welders	5	8.00	46	0.45

Architectural Coating	Aerial Lifts	3	6.00	63	0.31
Architectural Coating	Air Compressors	10	6.00	78	0.48
Architectural Coating	Cement and Mortar Mixers	4	6.00	9	0.56
Architectural Coating	Concrete/Industrial Saws	5	8.00	81	0.73
Architectural Coating	Cranes	1	6.00	9	0.56
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Pressure Washers	5	6.00	13	0.30
Architectural Coating	Signal Boards	2	8.00	6	0.82
Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Architectural Coating	Welders	5	6.00	46	0.45

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	19	50.00	0.00	100.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	27	200.00	20.00	4,800.00	14.70	6.90	21.00	LD_Mix	HDT_Mix	HHDT
Building Construction	43	500.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	39	200.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					1.5285	0.0000	1.5285	0.2314	0.0000	0.2314			0.0000			0.0000
Off-Road	3.0291	29.0939	22.8901	0.0427		1.5233	1.5233		1.4317	1.4317		4,109.0883	4,109.0883	0.9795		4,133.5764
<b>Total</b>	<b>3.0291</b>	<b>29.0939</b>	<b>22.8901</b>	<b>0.0427</b>	<b>1.5285</b>	<b>1.5233</b>	<b>3.0518</b>	<b>0.2314</b>	<b>1.4317</b>	<b>1.6631</b>		<b>4,109.0883</b>	<b>4,109.0883</b>	<b>0.9795</b>		<b>4,133.5764</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1268	4.0089	0.9892	0.0114	0.2623	0.0125	0.2748	0.0719	0.0120	0.0839		1,240.5566	1,240.5566	0.0879		1,242.7552
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	0.2384	0.1631	1.8413	5.3800e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		536.1256	536.1256	0.0158		536.5200
<b>Total</b>	<b>0.3652</b>	<b>4.1720</b>	<b>2.8305</b>	<b>0.0168</b>	<b>0.8212</b>	<b>0.0170</b>	<b>0.8382</b>	<b>0.2201</b>	<b>0.0161</b>	<b>0.2362</b>		<b>1,776.6821</b>	<b>1,776.6821</b>	<b>0.1037</b>		<b>1,779.2751</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5663	0.0000	0.5663	0.0857	0.0000	0.0857			0.0000			0.0000
Off-Road	1.8741	18.5805	25.1368	0.0427		0.8696	0.8696		0.8045	0.8045	0.0000	4,109.0883	4,109.0883	0.9795		4,133.5764

<b>Total</b>	<b>1.8741</b>	<b>18.5805</b>	<b>25.1368</b>	<b>0.0427</b>	<b>0.5663</b>	<b>0.8696</b>	<b>1.4359</b>	<b>0.0857</b>	<b>0.8045</b>	<b>0.8902</b>	<b>0.0000</b>	<b>4,109.0883</b>	<b>4,109.0883</b>	<b>0.9795</b>		<b>4,133.5764</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1268	4.0089	0.9892	0.0114	0.1710	0.0125	0.1835	0.0495	0.0120	0.0615		1,240.5566	1,240.5566	0.0879		1,242.7552
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	0.2384	0.1631	1.8413	5.3800e-003	0.3354	4.5200e-003	0.3399	0.0934	4.1600e-003	0.0975		536.1256	536.1256	0.0158		536.5200
<b>Total</b>	<b>0.3652</b>	<b>4.1720</b>	<b>2.8305</b>	<b>0.0168</b>	<b>0.5064</b>	<b>0.0170</b>	<b>0.5234</b>	<b>0.1429</b>	<b>0.0161</b>	<b>0.1590</b>		<b>1,776.6821</b>	<b>1,776.6821</b>	<b>0.1037</b>		<b>1,779.2751</b>

**3.3 Site Preparation - 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					
Fugitive Dust					5.3400	0.0000	5.3400	2.9041	0.0000	2.9041			0.0000			0.0000
Off-Road	3.6775	38.4260	24.2543	0.0589		1.8413	1.8413		1.6963	1.6963		5,663.7236	5,663.7236	1.8101		5,708.9762
<b>Total</b>	<b>3.6775</b>	<b>38.4260</b>	<b>24.2543</b>	<b>0.0589</b>	<b>5.3400</b>	<b>1.8413</b>	<b>7.1814</b>	<b>2.9041</b>	<b>1.6963</b>	<b>4.6003</b>		<b>5,663.7236</b>	<b>5,663.7236</b>	<b>1.8101</b>		<b>5,708.9762</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	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204		267.3455	267.3455	0.0173		267.7770
Worker	0.2384	0.1631	1.8413	5.3800e-003	0.5589	4.5200e-003	0.5634	0.1482	4.1600e-003	0.1524		536.1256	536.1256	0.0158		536.5200
<b>Total</b>	<b>0.2703</b>	<b>1.1320</b>	<b>2.1221</b>	<b>7.8800e-003</b>	<b>0.6229</b>	<b>6.5700e-003</b>	<b>0.6295</b>	<b>0.1667</b>	<b>6.1200e-003</b>	<b>0.1728</b>		<b>803.4711</b>	<b>803.4711</b>	<b>0.0330</b>		<b>804.2970</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					1.9785	0.0000	1.9785	1.0760	0.0000	1.0760			0.0000			0.0000
Off-Road	1.6880	15.0107	31.2824	0.0589		0.6377	0.6377		0.5929	0.5929	0.0000	5,663.7235	5,663.7235	1.8101		5,708.9762
<b>Total</b>	<b>1.6880</b>	<b>15.0107</b>	<b>31.2824</b>	<b>0.0589</b>	<b>1.9785</b>	<b>0.6377</b>	<b>2.6161</b>	<b>1.0760</b>	<b>0.5929</b>	<b>1.6688</b>	<b>0.0000</b>	<b>5,663.7235</b>	<b>5,663.7235</b>	<b>1.8101</b>		<b>5,708.9762</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0430	2.0500e-003	0.0451	0.0133	1.9600e-003	0.0152		267.3455	267.3455	0.0173		267.7770
Worker	0.2384	0.1631	1.8413	5.3800e-003	0.3354	4.5200e-003	0.3399	0.0934	4.1600e-003	0.0975		536.1256	536.1256	0.0158		536.5200
<b>Total</b>	<b>0.2703</b>	<b>1.1320</b>	<b>2.1221</b>	<b>7.8800e-003</b>	<b>0.3784</b>	<b>6.5700e-003</b>	<b>0.3850</b>	<b>0.1066</b>	<b>6.1200e-003</b>	<b>0.1128</b>		<b>803.4711</b>	<b>803.4711</b>	<b>0.0330</b>		<b>804.2970</b>

### 3.4 Grading - 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					
Fugitive Dust					4.7287	0.0000	4.7287	2.5137	0.0000	2.5137			0.0000			0.0000
Off-Road	2.1901	23.6399	12.2828	0.0257		1.1025	1.1025		1.0165	1.0165		2,453.9500	2,453.9500	0.7720		2,473.2500
<b>Total</b>	<b>2.1901</b>	<b>23.6399</b>	<b>12.2828</b>	<b>0.0257</b>	<b>4.7287</b>	<b>1.1025</b>	<b>5.8312</b>	<b>2.5137</b>	<b>1.0165</b>	<b>3.5303</b>		<b>2,453.9500</b>	<b>2,453.9500</b>	<b>0.7720</b>		<b>2,473.2500</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	1.3314	42.0936	10.3869	0.1201	2.7538	0.1313	2.8851	0.7549	0.1256	0.8804		13,025.8441	13,025.8441	0.9234		13,048.9294
Vendor	0.0638	1.9378	0.5615	5.0000e-003	0.1280	4.1000e-003	0.1321	0.0369	3.9200e-003	0.0408		534.6911	534.6911	0.0345		535.5540
Worker	0.9536	0.6523	7.3651	0.0215	2.2355	0.0181	2.2536	0.5929	0.0166	0.6095		2,144.5022	2,144.5022	0.0631		2,146.0798
<b>Total</b>	<b>2.3489</b>	<b>44.6837</b>	<b>18.3136</b>	<b>0.1466</b>	<b>5.1174</b>	<b>0.1534</b>	<b>5.2708</b>	<b>1.3846</b>	<b>0.1462</b>	<b>1.5307</b>		<b>15,705.0373</b>	<b>15,705.0373</b>	<b>1.0210</b>		<b>15,730.5632</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					1.7520	0.0000	1.7520	0.9313	0.0000	0.9313			0.0000			0.0000
Off-Road	1.1450	11.7390	13.4503	0.0257		0.5070	0.5070		0.4685	0.4685	0.0000	2,453.9500	2,453.9500	0.7720		2,473.2500
<b>Total</b>	<b>1.1450</b>	<b>11.7390</b>	<b>13.4503</b>	<b>0.0257</b>	<b>1.7520</b>	<b>0.5070</b>	<b>2.2590</b>	<b>0.9313</b>	<b>0.4685</b>	<b>1.3998</b>	<b>0.0000</b>	<b>2,453.9500</b>	<b>2,453.9500</b>	<b>0.7720</b>		<b>2,473.2500</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	1.3314	42.0936	10.3869	0.1201	1.7959	0.1313	1.9272	0.5197	0.1256	0.6453		13,025.844	13,025.844	0.9234		13,048.929
Vendor	0.0638	1.9378	0.5615	5.0000e-003	0.0861	4.1000e-003	0.0902	0.0266	3.9200e-003	0.0305		534.6911	534.6911	0.0345		535.5540
Worker	0.9536	0.6523	7.3651	0.0215	1.3415	0.0181	1.3596	0.3734	0.0166	0.3901		2,144.5022	2,144.5022	0.0631		2,146.0798
<b>Total</b>	<b>2.3489</b>	<b>44.6837</b>	<b>18.3136</b>	<b>0.1466</b>	<b>3.2235</b>	<b>0.1534</b>	<b>3.3770</b>	<b>0.9197</b>	<b>0.1462</b>	<b>1.0659</b>		<b>15,705.0373</b>	<b>15,705.0373</b>	<b>1.0210</b>		<b>15,730.5632</b>

**3.5 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	9.7708	78.3228	86.0973	0.1442		4.3556	4.3556		4.2671	4.2671		13,488.2557	13,488.2557	1.4300		13,524.0045
<b>Total</b>	<b>9.7708</b>	<b>78.3228</b>	<b>86.0973</b>	<b>0.1442</b>		<b>4.3556</b>	<b>4.3556</b>		<b>4.2671</b>	<b>4.2671</b>		<b>13,488.2557</b>	<b>13,488.2557</b>	<b>1.4300</b>		<b>13,524.0045</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	0.1596	4.8444	1.4038	0.0125	0.3201	0.0102	0.3304	0.0922	9.8000e-003	0.1020		1,336.7276	1,336.7276	0.0863		1,338.8850
Worker	2.3841	1.6307	18.4128	0.0538	5.5888	0.0452	5.6340	1.4822	0.0416	1.5238		5,361.2555	5,361.2555	0.1578		5,365.1995
<b>Total</b>	<b>2.5437</b>	<b>6.4752</b>	<b>19.8166</b>	<b>0.0663</b>	<b>5.9089</b>	<b>0.0554</b>	<b>5.9643</b>	<b>1.5743</b>	<b>0.0514</b>	<b>1.6257</b>		<b>6,697.9831</b>	<b>6,697.9831</b>	<b>0.2441</b>		<b>6,704.0845</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	2.1894	19.4170	88.6357	0.1442		0.5026	0.5026		0.4970	0.4970	0.0000	13,488.2557	13,488.2557	1.4300		13,524.0045
												7	7			5

<b>Total</b>	<b>2.1894</b>	<b>19.4170</b>	<b>88.6357</b>	<b>0.1442</b>		<b>0.5026</b>	<b>0.5026</b>		<b>0.4970</b>	<b>0.4970</b>	<b>0.0000</b>	<b>13,488.255</b>	<b>13,488.255</b>	<b>1.4300</b>		<b>13,524.004</b>
												<b>7</b>	<b>7</b>			<b>5</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	0.1596	4.8444	1.4038	0.0125	0.2152	0.0102	0.2254	0.0664	9.8000e-003	0.0762		1,336.7276	1,336.7276	0.0863		1,338.8850
Worker	2.3841	1.6307	18.4128	0.0538	3.3538	0.0452	3.3990	0.9336	0.0416	0.9752		5,361.2555	5,361.2555	0.1578		5,365.1995
<b>Total</b>	<b>2.5437</b>	<b>6.4752</b>	<b>19.8166</b>	<b>0.0663</b>	<b>3.5690</b>	<b>0.0554</b>	<b>3.6244</b>	<b>1.0000</b>	<b>0.0514</b>	<b>1.0514</b>		<b>6,697.9831</b>	<b>6,697.9831</b>	<b>0.2441</b>		<b>6,704.0845</b>

**3.5 Building Construction - 2022**

**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	9.0260	72.5953	85.6697	0.1442		3.8031	3.8031		3.7248	3.7248		13,488.632	13,488.632	1.3837		13,523.225
												<b>4</b>	<b>4</b>			<b>7</b>
<b>Total</b>	<b>9.0260</b>	<b>72.5953</b>	<b>85.6697</b>	<b>0.1442</b>		<b>3.8031</b>	<b>3.8031</b>		<b>3.7248</b>	<b>3.7248</b>		<b>13,488.632</b>	<b>13,488.632</b>	<b>1.3837</b>		<b>13,523.225</b>
												<b>4</b>	<b>4</b>			<b>7</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	0.1498	4.6040	1.3289	0.0124	0.3201	8.9600e-003	0.3291	0.0922	8.5700e-003	0.1007		1,324.8514	1,324.8514	0.0833		1,326.9330
Worker	2.2392	1.4727	16.9588	0.0519	5.5888	0.0438	5.6326	1.4822	0.0403	1.5225		5,172.8473	5,172.8473	0.1424		5,176.4081
<b>Total</b>	<b>2.3890</b>	<b>6.0767</b>	<b>18.2877</b>	<b>0.0643</b>	<b>5.9089</b>	<b>0.0527</b>	<b>5.9617</b>	<b>1.5744</b>	<b>0.0489</b>	<b>1.6232</b>		<b>6,497.6987</b>	<b>6,497.6987</b>	<b>0.2257</b>		<b>6,503.3411</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	2.1342	18.9220	88.6081	0.1442		0.4567	0.4567		0.4522	0.4522	0.0000	13,488.6324	13,488.6324	1.3837		13,523.2257
<b>Total</b>	<b>2.1342</b>	<b>18.9220</b>	<b>88.6081</b>	<b>0.1442</b>		<b>0.4567</b>	<b>0.4567</b>		<b>0.4522</b>	<b>0.4522</b>	<b>0.0000</b>	<b>13,488.6324</b>	<b>13,488.6324</b>	<b>1.3837</b>		<b>13,523.2257</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1498	4.6040	1.3289	0.0124	0.2152	8.9600e-003	0.2242	0.0664	8.5700e-003	0.0750		1,324.8514	1,324.8514	0.0833		1,326.9330
Worker	2.2392	1.4727	16.9588	0.0519	3.3538	0.0438	3.3975	0.9336	0.0403	0.9739		5,172.8473	5,172.8473	0.1424		5,176.4081
<b>Total</b>	<b>2.3890</b>	<b>6.0767</b>	<b>18.2877</b>	<b>0.0643</b>	<b>3.5690</b>	<b>0.0527</b>	<b>3.6217</b>	<b>1.0000</b>	<b>0.0489</b>	<b>1.0489</b>		<b>6,497.6987</b>	<b>6,497.6987</b>	<b>0.2257</b>		<b>6,503.3411</b>

### 3.5 Building Construction - 2023

#### 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	8.4168	67.7955	85.3883	0.1443		3.3319	3.3319		3.2608	3.2608		13,489.3833	13,489.3833	1.3330		13,522.7070
<b>Total</b>	<b>8.4168</b>	<b>67.7955</b>	<b>85.3883</b>	<b>0.1443</b>		<b>3.3319</b>	<b>3.3319</b>		<b>3.2608</b>	<b>3.2608</b>		<b>13,489.3833</b>	<b>13,489.3833</b>	<b>1.3330</b>		<b>13,522.7070</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	0.1113	3.4869	1.1808	0.0120	0.3201	4.2600e-003	0.3244	0.0922	4.0700e-003	0.0962		1,283.7065	1,283.7065	0.0733		1,285.5390
Worker	2.1096	1.3320	15.5883	0.0500	5.5888	0.0425	5.6313	1.4822	0.0391	1.5213		4,983.6029	4,983.6029	0.1283		4,986.8092
<b>Total</b>	<b>2.2208</b>	<b>4.8189</b>	<b>16.7692</b>	<b>0.0620</b>	<b>5.9089</b>	<b>0.0468</b>	<b>5.9557</b>	<b>1.5744</b>	<b>0.0432</b>	<b>1.6176</b>		<b>6,267.3094</b>	<b>6,267.3094</b>	<b>0.2016</b>		<b>6,272.3482</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	2.0897	18.5127	88.5937	0.1443		0.4181	0.4181		0.4143	0.4143	0.0000	13,489.3833	13,489.3833	1.3330		13,522.7070
<b>Total</b>	<b>2.0897</b>	<b>18.5127</b>	<b>88.5937</b>	<b>0.1443</b>		<b>0.4181</b>	<b>0.4181</b>		<b>0.4143</b>	<b>0.4143</b>	<b>0.0000</b>	<b>13,489.3833</b>	<b>13,489.3833</b>	<b>1.3330</b>		<b>13,522.7070</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	0.1113	3.4869	1.1808	0.0120	0.2152	4.2600e-003	0.2195	0.0664	4.0700e-003	0.0705		1,283.7065	1,283.7065	0.0733		1,285.5390
Worker	2.1096	1.3320	15.5883	0.0500	3.3538	0.0425	3.3963	0.9336	0.0391	0.9727		4,983.6029	4,983.6029	0.1283		4,986.8092
<b>Total</b>	<b>2.2208</b>	<b>4.8189</b>	<b>16.7692</b>	<b>0.0620</b>	<b>3.5690</b>	<b>0.0468</b>	<b>3.6158</b>	<b>1.0000</b>	<b>0.0432</b>	<b>1.0432</b>		<b>6,267.3094</b>	<b>6,267.3094</b>	<b>0.2016</b>		<b>6,272.3482</b>

**3.6 Architectural Coating - 2022**

**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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	5.9394	42.7604	53.0933	0.0871		2.2818	2.2818		2.2535	2.2535		8,008.7725	8,008.7725	0.8200		8,029.2721
<b>Total</b>	<b>14.1542</b>	<b>42.7604</b>	<b>53.0933</b>	<b>0.0871</b>		<b>2.2818</b>	<b>2.2818</b>		<b>2.2535</b>	<b>2.2535</b>		<b>8,008.7725</b>	<b>8,008.7725</b>	<b>0.8200</b>		<b>8,029.2721</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	0.1498	4.6040	1.3289	0.0124	0.3201	8.9600e-003	0.3291	0.0922	8.5700e-003	0.1007		1,324.8514	1,324.8514	0.0833		1,326.9330
Worker	0.8957	0.5891	6.7835	0.0208	2.2355	0.0175	2.2530	0.5929	0.0161	0.6090		2,069.1389	2,069.1389	0.0570		2,070.5633
<b>Total</b>	<b>1.0455</b>	<b>5.1930</b>	<b>8.1124</b>	<b>0.0332</b>	<b>2.5556</b>	<b>0.0265</b>	<b>2.5821</b>	<b>0.6850</b>	<b>0.0247</b>	<b>0.7097</b>		<b>3,393.9903</b>	<b>3,393.9903</b>	<b>0.1402</b>		<b>3,397.4962</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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.1337	11.4644	51.4069	0.0871		0.1811	0.1811		0.1811	0.1811	0.0000	8,008.7725	8,008.7725	0.8200		8,029.2721

<b>Total</b>	<b>9.3484</b>	<b>11.4644</b>	<b>51.4069</b>	<b>0.0871</b>		<b>0.1811</b>	<b>0.1811</b>		<b>0.1811</b>	<b>0.1811</b>	<b>0.0000</b>	<b>8,008.7725</b>	<b>8,008.7725</b>	<b>0.8200</b>		<b>8,029.2721</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1498	4.6040	1.3289	0.0124	0.2152	8.9600e-003	0.2242	0.0664	8.5700e-003	0.0750		1,324.8514	1,324.8514	0.0833		1,326.9330
Worker	0.8957	0.5891	6.7835	0.0208	1.3415	0.0175	1.3590	0.3734	0.0161	0.3896		2,069.1389	2,069.1389	0.0570		2,070.5633
<b>Total</b>	<b>1.0455</b>	<b>5.1930</b>	<b>8.1124</b>	<b>0.0332</b>	<b>1.5567</b>	<b>0.0265</b>	<b>1.5832</b>	<b>0.4399</b>	<b>0.0247</b>	<b>0.4645</b>		<b>3,393.9903</b>	<b>3,393.9903</b>	<b>0.1402</b>		<b>3,397.4962</b>

**3.6 Architectural Coating - 2023**

**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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	5.5574	40.0070	52.9321	0.0871		1.9826	1.9826		1.9580	1.9580		8,008.7775	8,008.7775	0.7810		8,028.3028
<b>Total</b>	<b>13.7721</b>	<b>40.0070</b>	<b>52.9321</b>	<b>0.0871</b>		<b>1.9826</b>	<b>1.9826</b>		<b>1.9580</b>	<b>1.9580</b>		<b>8,008.7775</b>	<b>8,008.7775</b>	<b>0.7810</b>		<b>8,028.3028</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	0.1113	3.4869	1.1808	0.0120	0.3201	4.2600e-003	0.3244	0.0922	4.0700e-003	0.0962		1,283.7065	1,283.7065	0.0733		1,285.5390
Worker	0.8438	0.5328	6.2353	0.0200	2.2355	0.0170	2.2525	0.5929	0.0157	0.6085		1,993.4412	1,993.4412	0.0513		1,994.7237
<b>Total</b>	<b>0.9551</b>	<b>4.0197</b>	<b>7.4162</b>	<b>0.0320</b>	<b>2.5557</b>	<b>0.0213</b>	<b>2.5769</b>	<b>0.6850</b>	<b>0.0197</b>	<b>0.7048</b>		<b>3,277.1477</b>	<b>3,277.1477</b>	<b>0.1246</b>		<b>3,280.2627</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	8.2147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.1217	11.3560	51.4033	0.0871		0.1701	0.1701		0.1701	0.1701	0.0000	8,008.7775	8,008.7775	0.7810		8,028.3028
<b>Total</b>	<b>9.3364</b>	<b>11.3560</b>	<b>51.4033</b>	<b>0.0871</b>		<b>0.1701</b>	<b>0.1701</b>		<b>0.1701</b>	<b>0.1701</b>	<b>0.0000</b>	<b>8,008.7775</b>	<b>8,008.7775</b>	<b>0.7810</b>		<b>8,028.3028</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1113	3.4869	1.1808	0.0120	0.2152	4.2600e-003	0.2195	0.0664	4.0700e-003	0.0705		1,283.7065	1,283.7065	0.0733		1,285.5390
Worker	0.8438	0.5328	6.2353	0.0200	1.3415	0.0170	1.3585	0.3734	0.0157	0.3891		1,993.4412	1,993.4412	0.0513		1,994.7237
<b>Total</b>	<b>0.9551</b>	<b>4.0197</b>	<b>7.4162</b>	<b>0.0320</b>	<b>1.5567</b>	<b>0.0213</b>	<b>1.5780</b>	<b>0.4399</b>	<b>0.0197</b>	<b>0.4596</b>		<b>3,277.1477</b>	<b>3,277.1477</b>	<b>0.1246</b>		<b>3,280.2627</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	3.6614	16.0054	48.7288	0.1851	16.3337	0.1427	16.4764	4.3710	0.1328	4.5038		18,862.375	18,862.375	0.9404		18,885.886
Unmitigated	3.6614	16.0054	48.7288	0.1851	16.3337	0.1427	16.4764	4.3710	0.1328	4.5038		7	7	0.9404		2

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	2,127.16	2,127.16	1562.20	6,988,804	6,988,804
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	24.61	7.33	3.13	61,453	61,453
Health Club	0.00	0.00	0.00		
Strip Mall	177.42	110.57	53.73	285,768	285,768
<b>Total</b>	<b>2,329.19</b>	<b>2,245.06</b>	<b>1,619.06</b>	<b>7,336,026</b>	<b>7,336,026</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
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
General Office Building	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Health Club	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Strip Mall	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Natural Gas Mitigated	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
Natural Gas Unmitigated	0.1675	1.4455	0.7144	9.1300e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13086.1	0.1411	1.2060	0.5132	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.5460	1,539.5460	0.0295	0.0282	1,548.6948
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	85.3995	9.2000e-004	8.3700e-003	7.0300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0470	10.0470	1.9000e-004	1.8000e-004	10.1067
Health Club	2345.92	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		275.9910	275.9910	5.2900e-003	5.0600e-003	277.6311
Strip Mall	11.889	1.3000e-004	1.1700e-003	9.8000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.3987	1.3987	3.0000e-005	3.0000e-005	1.4070
<b>Total</b>		<b>0.1675</b>	<b>1.4455</b>	<b>0.7144</b>	<b>9.1400e-003</b>		<b>0.1157</b>	<b>0.1157</b>		<b>0.1157</b>	<b>0.1157</b>		<b>1,826.9827</b>	<b>1,826.9827</b>	<b>0.0350</b>	<b>0.0335</b>	<b>1,837.8396</b>

### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13.0861	0.1411	1.2060	0.5132	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.5460	1,539.5460	0.0295	0.0282	1,548.6948
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.0853995	9.2000e-004	8.3700e-003	7.0300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0470	10.0470	1.9000e-004	1.8000e-004	10.1067
Health Club	2.34592	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		275.9910	275.9910	5.2900e-003	5.0600e-003	277.6311
Strip Mall	0.011889	1.3000e-004	1.1700e-003	9.8000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.3987	1.3987	3.0000e-005	3.0000e-005	1.4070

Total		0.1675	1.4455	0.7144	9.1400e-003		0.1157	0.1157		0.1157	0.1157		1,826.9827	1,826.9827	0.0350	0.0335	1,837.8396
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## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226
Unmitigated	9.1170	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957	0.0000	63.6871	63.6871	0.0614	0.0000	65.2226

### 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	0.6887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0686	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957		63.6871	63.6871	0.0614		65.2226

<b>Total</b>	<b>9.1170</b>	<b>0.4076</b>	<b>35.3682</b>	<b>1.8700e-003</b>		<b>0.1957</b>	<b>0.1957</b>		<b>0.1957</b>	<b>0.1957</b>	<b>0.0000</b>	<b>63.6871</b>	<b>63.6871</b>	<b>0.0614</b>	<b>0.0000</b>	<b>65.2226</b>
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**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	0.6887					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.3597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0686	0.4076	35.3682	1.8700e-003		0.1957	0.1957		0.1957	0.1957		63.6871	63.6871	0.0614		65.2226
<b>Total</b>	<b>9.1170</b>	<b>0.4076</b>	<b>35.3682</b>	<b>1.8700e-003</b>		<b>0.1957</b>	<b>0.1957</b>		<b>0.1957</b>	<b>0.1957</b>	<b>0.0000</b>	<b>63.6871</b>	<b>63.6871</b>	<b>0.0614</b>	<b>0.0000</b>	<b>65.2226</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**



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

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

Equipment Type	Number
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**11.0 Vegetation**

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Equity 4th and Hill Project  
 GHG Emissions Impact Compared to "No Action Taken" Scenario

Source	NAT (2021)	As Proposed (2021)	Reduction from NAT	Change from NAT
Area	7	7	-	0%
Energy	3,974	2,305	(1,669)	-42%
Mobile	4,301	3,019	(1,282)	-30%
Waste	237	237	-	0%
Water	393	393	-	0%
Construction	240	240	-	0%
<b>Total Emissions</b>	<b>9,152</b>	<b>6,202</b>	<b>(2,951)</b>	<b>-32.2%</b>
Net Increase		6,127		

Land Use	NAT	As Proposed	Difference
Land Use	328 DU, 5,610 sf com	328 DU, 5,610 sf com	None
Traffic	Up to 2,277 net ADT	Up to 2,277 net ADT	None
Area	Same as proposed	Project assumptions	None
Energy	No State measures	See below	State measures
Mobile	No State measures	See below	State measures
Waste	Reduce construction w	Reduce construction w	None
Water	Project assumptions	Project assumptions	None

Mobile source emission: Pavley emission standards (19.8% reduction)

Low carbon fuel standard (7.2% reduction)

Vehicle efficiency measures (2.8% reduction)

Energy Production Assu Natural gas transmission and distribution efficiency measures (7.4% reduction)

Natural gas extraction efficiency measures (1.6% reduction)

Renewables (electricity) portfolio standard (33% reduction)