

# **APPENDIX A**

## *Air Quality and Greenhouse Gas Emissions*



**Litton Bostick Residential Project**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.78	Acre	2.78	121,096.80	0
Other Non-Asphalt Surfaces	1.25	Acre	1.25	54,450.00	0
Single Family Housing	89.00	Dwelling Unit	41.58	160,200.00	255

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	592.74	<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 - Litton Bostick Residential Project. SCAQMD. Adjusted CO2 intensity factor to meet a 33% RPS.

Land Use - Project includes 89 single-family residential units.

Construction Phase - Assumed construction start date of January 2020 through August 2022.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

## Litton Bostick Residential Project - South Coast AQMD Air District, Annual

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Grading - Assumed no export or import of soil, site would be balanced.

Vehicle Trips - Adjusted weekday trip rate according to Traffic Impact Analysis (Ganddini Group, Inc).

Woodstoves - Natural gas hearths.

Construction Off-road Equipment Mitigation - Comply with Rule 403 - water three times daily and replace ground cover of area disturbed.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen Compliance.

Waste Mitigation - 75% waste diverted consistent with AB 341.

Trips and VMT - Default trip assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	520.00
tblConstructionPhase	NumDays	55.00	260.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	75.65	89.00
tblFireplaces	NumberNoFireplace	8.90	0.00
tblFireplaces	NumberWood	4.45	0.00
tblLandUse	LotAcreage	28.90	41.58
tblProjectCharacteristics	CO2IntensityFactor	702.44	592.74
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00



**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6726	0.0290	0.9259	1.7000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	22.8716	22.8716	1.8500e-003	3.9000e-004	23.0346
Energy	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	353.8872	353.8872	0.0130	4.7800e-003	355.6350
Mobile	0.2247	1.0995	3.1179	0.0125	1.0851	8.8400e-003	1.0940	0.2908	8.2200e-003	0.2990	0.0000	1,155.2076	1,155.2076	0.0520	0.0000	1,156.5064
Waste						0.0000	0.0000		0.0000	0.0000	21.2227	0.0000	21.2227	1.2542	0.0000	52.5784
Water						0.0000	0.0000		0.0000	0.0000	1.8397	31.2203	33.0599	0.1905	4.7800e-003	39.2456
<b>Total</b>	<b>0.9120</b>	<b>1.2540</b>	<b>4.0972</b>	<b>0.0135</b>	<b>1.0851</b>	<b>0.0256</b>	<b>1.1107</b>	<b>0.2908</b>	<b>0.0249</b>	<b>0.3157</b>	<b>23.0624</b>	<b>1,563.1866</b>	<b>1,586.2489</b>	<b>1.5115</b>	<b>9.9500e-003</b>	<b>1,626.9999</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6726	0.0290	0.9259	1.7000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	22.8716	22.8716	1.8500e-003	3.9000e-004	23.0346
Energy	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	353.8872	353.8872	0.0130	4.7800e-003	355.6350
Mobile	0.2247	1.0995	3.1179	0.0125	1.0851	8.8400e-003	1.0940	0.2908	8.2200e-003	0.2990	0.0000	1,155.2076	1,155.2076	0.0520	0.0000	1,156.5064
Waste						0.0000	0.0000		0.0000	0.0000	5.3057	0.0000	5.3057	0.3136	0.0000	13.1446
Water						0.0000	0.0000		0.0000	0.0000	1.4717	24.9762	26.4479	0.1524	3.8200e-003	31.3965
<b>Total</b>	<b>0.9120</b>	<b>1.2540</b>	<b>4.0972</b>	<b>0.0135</b>	<b>1.0851</b>	<b>0.0256</b>	<b>1.1107</b>	<b>0.2908</b>	<b>0.0249</b>	<b>0.3157</b>	<b>6.7774</b>	<b>1,556.9425</b>	<b>1,563.7199</b>	<b>0.5327</b>	<b>8.9900e-003</b>	<b>1,579.7170</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	70.61	0.40	1.42	64.75	9.65	2.91

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	2/11/2020	5	30	
2	Grading	Grading	2/12/2020	5/26/2020	5	75	
3	Paving	Paving	5/27/2020	8/11/2020	5	55	
4	Building Construction	Building Construction	8/12/2020	8/9/2022	5	520	
5	Architectural Coating	Architectural Coating	8/11/2021	8/9/2022	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 4.03

Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

### 3.2 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5515
<b>Total</b>	<b>0.0612</b>	<b>0.6363</b>	<b>0.3227</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0330</b>	<b>0.3040</b>	<b>0.1490</b>	<b>0.0303</b>	<b>0.1793</b>	<b>0.0000</b>	<b>50.1460</b>	<b>50.1460</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5515</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	9.2000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6667	2.6667	8.0000e-005	0.0000	2.6686
<b>Total</b>	<b>1.2100e-003</b>	<b>9.2000e-004</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>2.9600e-003</b>	<b>2.0000e-005</b>	<b>2.9900e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.6667</b>	<b>2.6667</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.6686</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					0.0898	0.0000	0.0898	0.0494	0.0000	0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5514
<b>Total</b>	<b>0.0612</b>	<b>0.6363</b>	<b>0.3227</b>	<b>5.7000e-004</b>	<b>0.0898</b>	<b>0.0330</b>	<b>0.1228</b>	<b>0.0494</b>	<b>0.0303</b>	<b>0.0797</b>	<b>0.0000</b>	<b>50.1460</b>	<b>50.1460</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5514</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	9.2000e-004	0.0102	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6667	2.6667	8.0000e-005	0.0000	2.6686
<b>Total</b>	<b>1.2100e-003</b>	<b>9.2000e-004</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>2.9600e-003</b>	<b>2.0000e-005</b>	<b>2.9900e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.6667</b>	<b>2.6667</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.6686</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3161	204.3161	0.0661	0.0000	205.9681
<b>Total</b>	<b>0.1669</b>	<b>1.8824</b>	<b>1.1984</b>	<b>2.3300e-003</b>	<b>0.3253</b>	<b>0.0815</b>	<b>0.4068</b>	<b>0.1349</b>	<b>0.0750</b>	<b>0.2099</b>	<b>0.0000</b>	<b>204.3161</b>	<b>204.3161</b>	<b>0.0661</b>	<b>0.0000</b>	<b>205.9681</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3500e-003	2.5700e-003	0.0284	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.4075	7.4075	2.1000e-004	0.0000	7.4128
<b>Total</b>	<b>3.3500e-003</b>	<b>2.5700e-003</b>	<b>0.0284</b>	<b>8.0000e-005</b>	<b>8.2300e-003</b>	<b>6.0000e-005</b>	<b>8.2900e-003</b>	<b>2.1900e-003</b>	<b>6.0000e-005</b>	<b>2.2400e-003</b>	<b>0.0000</b>	<b>7.4075</b>	<b>7.4075</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.4128</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					0.1078	0.0000	0.1078	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3159	204.3159	0.0661	0.0000	205.9679
<b>Total</b>	<b>0.1669</b>	<b>1.8824</b>	<b>1.1984</b>	<b>2.3300e-003</b>	<b>0.1078</b>	<b>0.0815</b>	<b>0.1893</b>	<b>0.0447</b>	<b>0.0750</b>	<b>0.1197</b>	<b>0.0000</b>	<b>204.3159</b>	<b>204.3159</b>	<b>0.0661</b>	<b>0.0000</b>	<b>205.9679</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3500e-003	2.5700e-003	0.0284	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.4075	7.4075	2.1000e-004	0.0000	7.4128
<b>Total</b>	<b>3.3500e-003</b>	<b>2.5700e-003</b>	<b>0.0284</b>	<b>8.0000e-005</b>	<b>8.2300e-003</b>	<b>6.0000e-005</b>	<b>8.2900e-003</b>	<b>2.1900e-003</b>	<b>6.0000e-005</b>	<b>2.2400e-003</b>	<b>0.0000</b>	<b>7.4075</b>	<b>7.4075</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.4128</b>

### 3.4 Paving - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0373	0.3868	0.4029	6.3000e-004		0.0207	0.0207		0.0191	0.0191	0.0000	55.0776	55.0776	0.0178	0.0000	55.5229
Paving	3.6400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0410</b>	<b>0.3868</b>	<b>0.4029</b>	<b>6.3000e-004</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0191</b>	<b>0.0191</b>	<b>0.0000</b>	<b>55.0776</b>	<b>55.0776</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.5229</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.4100e-003	0.0156	5.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	4.0741	4.0741	1.2000e-004	0.0000	4.0771
<b>Total</b>	<b>1.8400e-003</b>	<b>1.4100e-003</b>	<b>0.0156</b>	<b>5.0000e-005</b>	<b>4.5300e-003</b>	<b>3.0000e-005</b>	<b>4.5600e-003</b>	<b>1.2000e-003</b>	<b>3.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>4.0741</b>	<b>4.0741</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0771</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	0.0373	0.3868	0.4029	6.3000e-004		0.0207	0.0207		0.0191	0.0191	0.0000	55.0775	55.0775	0.0178	0.0000	55.5229
Paving	3.6400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0410</b>	<b>0.3868</b>	<b>0.4029</b>	<b>6.3000e-004</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0191</b>	<b>0.0191</b>	<b>0.0000</b>	<b>55.0775</b>	<b>55.0775</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.5229</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.4100e-003	0.0156	5.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	4.0741	4.0741	1.2000e-004	0.0000	4.0771
<b>Total</b>	<b>1.8400e-003</b>	<b>1.4100e-003</b>	<b>0.0156</b>	<b>5.0000e-005</b>	<b>4.5300e-003</b>	<b>3.0000e-005</b>	<b>4.5600e-003</b>	<b>1.2000e-003</b>	<b>3.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>4.0741</b>	<b>4.0741</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0771</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1081	0.9785	0.8593	1.3700e-003		0.0570	0.0570		0.0536	0.0536	0.0000	118.1211	118.1211	0.0288	0.0000	118.8415
<b>Total</b>	<b>0.1081</b>	<b>0.9785</b>	<b>0.8593</b>	<b>1.3700e-003</b>		<b>0.0570</b>	<b>0.0570</b>		<b>0.0536</b>	<b>0.0536</b>	<b>0.0000</b>	<b>118.1211</b>	<b>118.1211</b>	<b>0.0288</b>	<b>0.0000</b>	<b>118.8415</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	6.4900e-003	0.2068	0.0512	4.9000e-004	0.0122	1.0100e-003	0.0132	3.5200e-003	9.7000e-004	4.4900e-003	0.0000	47.6655	47.6655	3.1300e-003	0.0000	47.7437
Worker	0.0241	0.0185	0.2047	5.9000e-004	0.0593	4.6000e-004	0.0598	0.0158	4.2000e-004	0.0162	0.0000	53.3932	53.3932	1.5300e-003	0.0000	53.4315
<b>Total</b>	<b>0.0306</b>	<b>0.2253</b>	<b>0.2560</b>	<b>1.0800e-003</b>	<b>0.0715</b>	<b>1.4700e-003</b>	<b>0.0730</b>	<b>0.0193</b>	<b>1.3900e-003</b>	<b>0.0207</b>	<b>0.0000</b>	<b>101.0587</b>	<b>101.0587</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>101.1752</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	0.1081	0.9785	0.8593	1.3700e-003		0.0570	0.0570		0.0536	0.0536	0.0000	118.1210	118.1210	0.0288	0.0000	118.8414
<b>Total</b>	<b>0.1081</b>	<b>0.9785</b>	<b>0.8593</b>	<b>1.3700e-003</b>		<b>0.0570</b>	<b>0.0570</b>		<b>0.0536</b>	<b>0.0536</b>	<b>0.0000</b>	<b>118.1210</b>	<b>118.1210</b>	<b>0.0288</b>	<b>0.0000</b>	<b>118.8414</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	6.4900e-003	0.2068	0.0512	4.9000e-004	0.0122	1.0100e-003	0.0132	3.5200e-003	9.7000e-004	4.4900e-003	0.0000	47.6655	47.6655	3.1300e-003	0.0000	47.7437
Worker	0.0241	0.0185	0.2047	5.9000e-004	0.0593	4.6000e-004	0.0598	0.0158	4.2000e-004	0.0162	0.0000	53.3932	53.3932	1.5300e-003	0.0000	53.4315
<b>Total</b>	<b>0.0306</b>	<b>0.2253</b>	<b>0.2560</b>	<b>1.0800e-003</b>	<b>0.0715</b>	<b>1.4700e-003</b>	<b>0.0730</b>	<b>0.0193</b>	<b>1.3900e-003</b>	<b>0.0207</b>	<b>0.0000</b>	<b>101.0587</b>	<b>101.0587</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>101.1752</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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2867</b>	<b>302.2867</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1099</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	0.0141	0.4798	0.1190	1.2500e-003	0.0313	9.7000e-004	0.0322	9.0200e-003	9.2000e-004	9.9400e-003	0.0000	121.0723	121.0723	7.6600e-003	0.0000	121.2637
Worker	0.0577	0.0426	0.4821	1.4600e-003	0.1518	1.1400e-003	0.1529	0.0403	1.0500e-003	0.0414	0.0000	132.1965	132.1965	3.5500e-003	0.0000	132.2851
<b>Total</b>	<b>0.0718</b>	<b>0.5225</b>	<b>0.6010</b>	<b>2.7100e-003</b>	<b>0.1830</b>	<b>2.1100e-003</b>	<b>0.1851</b>	<b>0.0493</b>	<b>1.9700e-003</b>	<b>0.0513</b>	<b>0.0000</b>	<b>253.2687</b>	<b>253.2687</b>	<b>0.0112</b>	<b>0.0000</b>	<b>253.5488</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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2863</b>	<b>302.2863</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1095</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	0.0141	0.4798	0.1190	1.2500e-003	0.0313	9.7000e-004	0.0322	9.0200e-003	9.2000e-004	9.9400e-003	0.0000	121.0723	121.0723	7.6600e-003	0.0000	121.2637
Worker	0.0577	0.0426	0.4821	1.4600e-003	0.1518	1.1400e-003	0.1529	0.0403	1.0500e-003	0.0414	0.0000	132.1965	132.1965	3.5500e-003	0.0000	132.2851
<b>Total</b>	<b>0.0718</b>	<b>0.5225</b>	<b>0.6010</b>	<b>2.7100e-003</b>	<b>0.1830</b>	<b>2.1100e-003</b>	<b>0.1851</b>	<b>0.0493</b>	<b>1.9700e-003</b>	<b>0.0513</b>	<b>0.0000</b>	<b>253.2687</b>	<b>253.2687</b>	<b>0.0112</b>	<b>0.0000</b>	<b>253.5488</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	tons/yr										MT/yr					
Off-Road	0.1339	1.2258	1.2845	2.1100e-003		0.0635	0.0635		0.0598	0.0598	0.0000	181.9043	181.9043	0.0436	0.0000	182.9938
<b>Total</b>	<b>0.1339</b>	<b>1.2258</b>	<b>1.2845</b>	<b>2.1100e-003</b>		<b>0.0635</b>	<b>0.0635</b>		<b>0.0598</b>	<b>0.0598</b>	<b>0.0000</b>	<b>181.9043</b>	<b>181.9043</b>	<b>0.0436</b>	<b>0.0000</b>	<b>182.9938</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	7.9600e-003	0.2737	0.0676	7.4000e-004	0.0188	5.0000e-004	0.0193	5.4300e-003	4.8000e-004	5.9100e-003	0.0000	72.1877	72.1877	4.4300e-003	0.0000	72.2985
Worker	0.0326	0.0232	0.2678	8.5000e-004	0.0913	6.7000e-004	0.0920	0.0243	6.1000e-004	0.0249	0.0000	76.6694	76.6694	1.9300e-003	0.0000	76.7176
<b>Total</b>	<b>0.0405</b>	<b>0.2968</b>	<b>0.3354</b>	<b>1.5900e-003</b>	<b>0.1101</b>	<b>1.1700e-003</b>	<b>0.1113</b>	<b>0.0297</b>	<b>1.0900e-003</b>	<b>0.0308</b>	<b>0.0000</b>	<b>148.8571</b>	<b>148.8571</b>	<b>6.3600e-003</b>	<b>0.0000</b>	<b>149.0161</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	0.1339	1.2258	1.2845	2.1100e-003		0.0635	0.0635		0.0598	0.0598	0.0000	181.9041	181.9041	0.0436	0.0000	182.9936
<b>Total</b>	<b>0.1339</b>	<b>1.2258</b>	<b>1.2845</b>	<b>2.1100e-003</b>		<b>0.0635</b>	<b>0.0635</b>		<b>0.0598</b>	<b>0.0598</b>	<b>0.0000</b>	<b>181.9041</b>	<b>181.9041</b>	<b>0.0436</b>	<b>0.0000</b>	<b>182.9936</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	7.9600e-003	0.2737	0.0676	7.4000e-004	0.0188	5.0000e-004	0.0193	5.4300e-003	4.8000e-004	5.9100e-003	0.0000	72.1877	72.1877	4.4300e-003	0.0000	72.2985
Worker	0.0326	0.0232	0.2678	8.5000e-004	0.0913	6.7000e-004	0.0920	0.0243	6.1000e-004	0.0249	0.0000	76.6694	76.6694	1.9300e-003	0.0000	76.7176
<b>Total</b>	<b>0.0405</b>	<b>0.2968</b>	<b>0.3354</b>	<b>1.5900e-003</b>	<b>0.1101</b>	<b>1.1700e-003</b>	<b>0.1113</b>	<b>0.0297</b>	<b>1.0900e-003</b>	<b>0.0308</b>	<b>0.0000</b>	<b>148.8571</b>	<b>148.8571</b>	<b>6.3600e-003</b>	<b>0.0000</b>	<b>149.0161</b>

### 3.6 Architectural Coating - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0786	0.0936	1.5000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	13.1493	13.1493	9.0000e-004	0.0000	13.1718
<b>Total</b>	<b>0.2195</b>	<b>0.0786</b>	<b>0.0936</b>	<b>1.5000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>13.1493</b>	<b>13.1493</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>13.1718</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5100e-003	3.3300e-003	0.0377	1.1000e-004	0.0119	9.0000e-005	0.0120	3.1500e-003	8.0000e-005	3.2300e-003	0.0000	10.3355	10.3355	2.8000e-004	0.0000	10.3424
<b>Total</b>	<b>4.5100e-003</b>	<b>3.3300e-003</b>	<b>0.0377</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>9.0000e-005</b>	<b>0.0120</b>	<b>3.1500e-003</b>	<b>8.0000e-005</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>10.3355</b>	<b>10.3355</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>10.3424</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	0.2082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0786	0.0936	1.5000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	13.1492	13.1492	9.0000e-004	0.0000	13.1718
<b>Total</b>	<b>0.2195</b>	<b>0.0786</b>	<b>0.0936</b>	<b>1.5000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>13.1492</b>	<b>13.1492</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>13.1718</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5100e-003	3.3300e-003	0.0377	1.1000e-004	0.0119	9.0000e-005	0.0120	3.1500e-003	8.0000e-005	3.2300e-003	0.0000	10.3355	10.3355	2.8000e-004	0.0000	10.3424
<b>Total</b>	<b>4.5100e-003</b>	<b>3.3300e-003</b>	<b>0.0377</b>	<b>1.1000e-004</b>	<b>0.0119</b>	<b>9.0000e-005</b>	<b>0.0120</b>	<b>3.1500e-003</b>	<b>8.0000e-005</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>10.3355</b>	<b>10.3355</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>10.3424</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	0.3174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0161	0.1106	0.1424	2.3000e-004		6.4100e-003	6.4100e-003		6.4100e-003	6.4100e-003	0.0000	20.0430	20.0430	1.3000e-003	0.0000	20.0757
<b>Total</b>	<b>0.3335</b>	<b>0.1106</b>	<b>0.1424</b>	<b>2.3000e-004</b>		<b>6.4100e-003</b>	<b>6.4100e-003</b>		<b>6.4100e-003</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>20.0430</b>	<b>20.0430</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>20.0757</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4500e-003	4.5900e-003	0.0530	1.7000e-004	0.0181	1.3000e-004	0.0182	4.8000e-003	1.2000e-004	4.9200e-003	0.0000	15.1892	15.1892	3.8000e-004	0.0000	15.1988
<b>Total</b>	<b>6.4500e-003</b>	<b>4.5900e-003</b>	<b>0.0530</b>	<b>1.7000e-004</b>	<b>0.0181</b>	<b>1.3000e-004</b>	<b>0.0182</b>	<b>4.8000e-003</b>	<b>1.2000e-004</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>15.1892</b>	<b>15.1892</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>15.1988</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	0.3174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0161	0.1106	0.1424	2.3000e-004		6.4100e-003	6.4100e-003		6.4100e-003	6.4100e-003	0.0000	20.0430	20.0430	1.3000e-003	0.0000	20.0756
<b>Total</b>	<b>0.3335</b>	<b>0.1106</b>	<b>0.1424</b>	<b>2.3000e-004</b>		<b>6.4100e-003</b>	<b>6.4100e-003</b>		<b>6.4100e-003</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>20.0430</b>	<b>20.0430</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>20.0756</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4500e-003	4.5900e-003	0.0530	1.7000e-004	0.0181	1.3000e-004	0.0182	4.8000e-003	1.2000e-004	4.9200e-003	0.0000	15.1892	15.1892	3.8000e-004	0.0000	15.1988
<b>Total</b>	<b>6.4500e-003</b>	<b>4.5900e-003</b>	<b>0.0530</b>	<b>1.7000e-004</b>	<b>0.0181</b>	<b>1.3000e-004</b>	<b>0.0182</b>	<b>4.8000e-003</b>	<b>1.2000e-004</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>15.1892</b>	<b>15.1892</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>15.1988</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	0.2247	1.0995	3.1179	0.0125	1.0851	8.8400e-003	1.0940	0.2908	8.2200e-003	0.2990	0.0000	1,155.2076	1,155.2076	0.0520	0.0000	1,156.5064
Unmitigated	0.2247	1.0995	3.1179	0.0125	1.0851	8.8400e-003	1.0940	0.2908	8.2200e-003	0.2990	0.0000	1,155.2076	1,155.2076	0.0520	0.0000	1,156.5064

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	881.99	767.18	2,855,748	2,855,748
Total	840.16	881.99	767.18	2,855,748	2,855,748

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Non-Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

## 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	208.5745	208.5745	0.0102	2.1100e-003	209.4587
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	208.5745	208.5745	0.0102	2.1100e-003	209.4587
NaturalGas Mitigated	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
NaturalGas Unmitigated	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.72306e+006	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
<b>Total</b>		<b>0.0147</b>	<b>0.1255</b>	<b>0.0534</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>145.3127</b>	<b>145.3127</b>	<b>2.7900e-003</b>	<b>2.6600e-003</b>	<b>146.1762</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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.72306e+006	0.0147	0.1255	0.0534	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.3127	145.3127	2.7900e-003	2.6600e-003	146.1762
<b>Total</b>		<b>0.0147</b>	<b>0.1255</b>	<b>0.0534</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>145.3127</b>	<b>145.3127</b>	<b>2.7900e-003</b>	<b>2.6600e-003</b>	<b>146.1762</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	775767	208.5745	0.0102	2.1100e-003	209.4587
<b>Total</b>		<b>208.5745</b>	<b>0.0102</b>	<b>2.1100e-003</b>	<b>209.4587</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	775767	208.5745	0.0102	2.1100e-003	209.4587
<b>Total</b>		<b>208.5745</b>	<b>0.0102</b>	<b>2.1100e-003</b>	<b>209.4587</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6726	0.0290	0.9259	1.7000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	22.8716	22.8716	1.8500e-003	3.9000e-004	23.0346
Unmitigated	0.6726	0.0290	0.9259	1.7000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	22.8716	22.8716	1.8500e-003	3.9000e-004	23.0346

## 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	0.0526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.1600e-003	0.0185	7.8500e-003	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	21.3722	21.3722	4.1000e-004	3.9000e-004	21.4992
Landscaping	0.0277	0.0106	0.9181	5.0000e-005		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	1.4994	1.4994	1.4400e-003	0.0000	1.5354
<b>Total</b>	<b>0.6726</b>	<b>0.0290</b>	<b>0.9259</b>	<b>1.7000e-004</b>		<b>6.5700e-003</b>	<b>6.5700e-003</b>		<b>6.5700e-003</b>	<b>6.5700e-003</b>	<b>0.0000</b>	<b>22.8716</b>	<b>22.8716</b>	<b>1.8500e-003</b>	<b>3.9000e-004</b>	<b>23.0346</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	0.0526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.1600e-003	0.0185	7.8500e-003	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	21.3722	21.3722	4.1000e-004	3.9000e-004	21.4992
Landscaping	0.0277	0.0106	0.9181	5.0000e-005		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	1.4994	1.4994	1.4400e-003	0.0000	1.5354
<b>Total</b>	<b>0.6726</b>	<b>0.0290</b>	<b>0.9259</b>	<b>1.7000e-004</b>		<b>6.5700e-003</b>	<b>6.5700e-003</b>		<b>6.5700e-003</b>	<b>6.5700e-003</b>	<b>0.0000</b>	<b>22.8716</b>	<b>22.8716</b>	<b>1.8500e-003</b>	<b>3.9000e-004</b>	<b>23.0346</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.4479	0.1524	3.8200e-003	31.3965
Unmitigated	33.0599	0.1905	4.7800e-003	39.2456

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.79871 / 3.65571	33.0599	0.1905	4.7800e-003	39.2456
<b>Total</b>		<b>33.0599</b>	<b>0.1905</b>	<b>4.7800e-003</b>	<b>39.2456</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.63897 / 2.92457	26.4479	0.1524	3.8200e-003	31.3965
<b>Total</b>		<b>26.4479</b>	<b>0.1524</b>	<b>3.8200e-003</b>	<b>31.3965</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.3057	0.3136	0.0000	13.1446
Unmitigated	21.2227	1.2542	0.0000	52.5784

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	104.55	21.2227	1.2542	0.0000	52.5784
<b>Total</b>		<b>21.2227</b>	<b>1.2542</b>	<b>0.0000</b>	<b>52.5784</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26.1375	5.3057	0.3136	0.0000	13.1446
<b>Total</b>		<b>5.3057</b>	<b>0.3136</b>	<b>0.0000</b>	<b>13.1446</b>



**Litton Bostick Residential Project**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.78	Acre	2.78	121,096.80	0
Other Non-Asphalt Surfaces	1.25	Acre	1.25	54,450.00	0
Single Family Housing	89.00	Dwelling Unit	41.58	160,200.00	255

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	592.74	<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 - Litton Bostick Residential Project. SCAQMD. Adjusted CO2 intensity factor to meet a 33% RPS.

Land Use - Project includes 89 single-family residential units.

Construction Phase - Assumed construction start date of January 2020 through August 2022.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Grading - Assumed no export or import of soil, site would be balanced.

Vehicle Trips - Adjusted weekday trip rate according to Traffic Impact Analysis (Ganddini Group, Inc).

Woodstoves - Natural gas hearths.

Construction Off-road Equipment Mitigation - Comply with Rule 403 - water three times daily and replace ground cover of area disturbed.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen Compliance.

Waste Mitigation - 75% waste diverted consistent with AB 341.

Trips and VMT - Default trip assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	520.00
tblConstructionPhase	NumDays	55.00	260.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	75.65	89.00
tblFireplaces	NumberNoFireplace	8.90	0.00
tblFireplaces	NumberWood	4.45	0.00
tblLandUse	LotAcreage	28.90	41.58
tblProjectCharacteristics	CO2IntensityFactor	702.44	592.74
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00





### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	2/11/2020	5	30	
2	Grading	Grading	2/12/2020	5/26/2020	5	75	
3	Paving	Paving	5/27/2020	8/11/2020	5	55	
4	Building Construction	Building Construction	8/12/2020	8/9/2022	5	520	
5	Architectural Coating	Architectural Coating	8/11/2021	8/9/2022	5	260	

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

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 4.03**

**Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

### 3.2 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>5.9890</b>	<b>2.1974</b>	<b>8.1864</b>	<b>3.2920</b>	<b>2.0216</b>	<b>5.3136</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>



**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.1739</b>	<b>10.8472</b>	<b>3.5965</b>	<b>2.0000</b>	<b>5.5965</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8752	0.0000	2.8752	1.1922	0.0000	1.1922			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>2.8752</b>	<b>2.1739</b>	<b>5.0491</b>	<b>1.1922</b>	<b>2.0000</b>	<b>3.1922</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

**3.4 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4890</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
<b>Total</b>	<b>0.0679</b>	<b>0.0456</b>	<b>0.6132</b>	<b>1.7200e-003</b>	<b>0.1677</b>	<b>1.2700e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>171.6626</b>	<b>171.6626</b>	<b>4.9400e-003</b>		<b>171.7860</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4890</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
<b>Total</b>	<b>0.0679</b>	<b>0.0456</b>	<b>0.6132</b>	<b>1.7200e-003</b>	<b>0.1677</b>	<b>1.2700e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>171.6626</b>	<b>171.6626</b>	<b>4.9400e-003</b>		<b>171.7860</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1248	3.9875	0.9495	9.7800e-003	0.2432	0.0198	0.2630	0.0700	0.0189	0.0889		1,042.9041	1,042.9041	0.0655		1,044.5411
Worker	0.4796	0.3224	4.3335	0.0122	1.1848	8.9900e-003	1.1938	0.3142	8.2800e-003	0.3225		1,213.0825	1,213.0825	0.0349		1,213.9544
<b>Total</b>	<b>0.6044</b>	<b>4.3099</b>	<b>5.2830</b>	<b>0.0220</b>	<b>1.4280</b>	<b>0.0288</b>	<b>1.4568</b>	<b>0.3842</b>	<b>0.0272</b>	<b>0.4114</b>		<b>2,255.9866</b>	<b>2,255.9866</b>	<b>0.1004</b>		<b>2,258.4955</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1248	3.9875	0.9495	9.7800e-003	0.2432	0.0198	0.2630	0.0700	0.0189	0.0889		1,042.9041	1,042.9041	0.0655		1,044.5411
Worker	0.4796	0.3224	4.3335	0.0122	1.1848	8.9900e-003	1.1938	0.3142	8.2800e-003	0.3225		1,213.0825	1,213.0825	0.0349		1,213.9544
<b>Total</b>	<b>0.6044</b>	<b>4.3099</b>	<b>5.2830</b>	<b>0.0220</b>	<b>1.4280</b>	<b>0.0288</b>	<b>1.4568</b>	<b>0.3842</b>	<b>0.0272</b>	<b>0.4114</b>		<b>2,255.9866</b>	<b>2,255.9866</b>	<b>0.1004</b>		<b>2,258.4955</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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.6243	0.8600	9.7000e-003	0.2432	7.3000e-003	0.2505	0.0700	6.9800e-003	0.0770		1,035.2662	1,035.2662	0.0626		1,036.8318
Worker	0.4475	0.2902	3.9933	0.0118	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,173.8475	1,173.8475	0.0316		1,174.6367
<b>Total</b>	<b>0.5532</b>	<b>3.9145</b>	<b>4.8533</b>	<b>0.0215</b>	<b>1.4280</b>	<b>0.0160</b>	<b>1.4441</b>	<b>0.3842</b>	<b>0.0150</b>	<b>0.3993</b>		<b>2,209.1137</b>	<b>2,209.1137</b>	<b>0.0942</b>		<b>2,211.4685</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.6243	0.8600	9.7000e-003	0.2432	7.3000e-003	0.2505	0.0700	6.9800e-003	0.0770		1,035.2662	1,035.2662	0.0626		1,036.8318
Worker	0.4475	0.2902	3.9933	0.0118	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,173.8475	1,173.8475	0.0316		1,174.6367
<b>Total</b>	<b>0.5532</b>	<b>3.9145</b>	<b>4.8533</b>	<b>0.0215</b>	<b>1.4280</b>	<b>0.0160</b>	<b>1.4441</b>	<b>0.3842</b>	<b>0.0150</b>	<b>0.3993</b>		<b>2,209.1137</b>	<b>2,209.1137</b>	<b>0.0942</b>		<b>2,211.4685</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0992	3.4403	0.8128	9.6000e-003	0.2432	6.3200e-003	0.2495	0.0700	6.0500e-003	0.0761		1,026.2247	1,026.2247	0.0603		1,027.7319
Worker	0.4197	0.2621	3.6925	0.0114	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,131.7874	1,131.7874	0.0285		1,132.5006
<b>Total</b>	<b>0.5189</b>	<b>3.7024</b>	<b>4.5054</b>	<b>0.0210</b>	<b>1.4280</b>	<b>0.0148</b>	<b>1.4428</b>	<b>0.3842</b>	<b>0.0139</b>	<b>0.3981</b>		<b>2,158.0120</b>	<b>2,158.0120</b>	<b>0.0888</b>		<b>2,160.2325</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0992	3.4403	0.8128	9.6000e-003	0.2432	6.3200e-003	0.2495	0.0700	6.0500e-003	0.0761		1,026.2247	1,026.2247	0.0603		1,027.7319
Worker	0.4197	0.2621	3.6925	0.0114	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,131.7874	1,131.7874	0.0285		1,132.5006
<b>Total</b>	<b>0.5189</b>	<b>3.7024</b>	<b>4.5054</b>	<b>0.0210</b>	<b>1.4280</b>	<b>0.0148</b>	<b>1.4428</b>	<b>0.3842</b>	<b>0.0139</b>	<b>0.3981</b>		<b>2,158.0120</b>	<b>2,158.0120</b>	<b>0.0888</b>		<b>2,160.2325</b>

### 3.6 Architectural Coating - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>4.2621</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0887	0.0575	0.7911	2.3300e-003	0.2347	1.7300e-003	0.2365	0.0623	1.5900e-003	0.0638		232.5547	232.5547	6.2500e-003		232.7110
<b>Total</b>	<b>0.0887</b>	<b>0.0575</b>	<b>0.7911</b>	<b>2.3300e-003</b>	<b>0.2347</b>	<b>1.7300e-003</b>	<b>0.2365</b>	<b>0.0623</b>	<b>1.5900e-003</b>	<b>0.0638</b>		<b>232.5547</b>	<b>232.5547</b>	<b>6.2500e-003</b>		<b>232.7110</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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>4.2621</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0887	0.0575	0.7911	2.3300e-003	0.2347	1.7300e-003	0.2365	0.0623	1.5900e-003	0.0638		232.5547	232.5547	6.2500e-003		232.7110
<b>Total</b>	<b>0.0887</b>	<b>0.0575</b>	<b>0.7911</b>	<b>2.3300e-003</b>	<b>0.2347</b>	<b>1.7300e-003</b>	<b>0.2365</b>	<b>0.0623</b>	<b>1.5900e-003</b>	<b>0.0638</b>		<b>232.5547</b>	<b>232.5547</b>	<b>6.2500e-003</b>		<b>232.7110</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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.2477</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0832	0.0519	0.7315	2.2500e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		224.2220	224.2220	5.6500e-003		224.3633
<b>Total</b>	<b>0.0832</b>	<b>0.0519</b>	<b>0.7315</b>	<b>2.2500e-003</b>	<b>0.2347</b>	<b>1.6800e-003</b>	<b>0.2364</b>	<b>0.0623</b>	<b>1.5500e-003</b>	<b>0.0638</b>		<b>224.2220</b>	<b>224.2220</b>	<b>5.6500e-003</b>		<b>224.3633</b>

Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.2477</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0832	0.0519	0.7315	2.2500e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		224.2220	224.2220	5.6500e-003		224.3633
<b>Total</b>	<b>0.0832</b>	<b>0.0519</b>	<b>0.7315</b>	<b>2.2500e-003</b>	<b>0.2347</b>	<b>1.6800e-003</b>	<b>0.2364</b>	<b>0.0623</b>	<b>1.5500e-003</b>	<b>0.0638</b>		<b>224.2220</b>	<b>224.2220</b>	<b>5.6500e-003</b>		<b>224.3633</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	1.4042	6.1468	19.0808	0.0754	6.4086	0.0512	6.4598	1.7146	0.0476	1.7623		7,681.6471	7,681.6471	0.3349		7,690.0184
Unmitigated	1.4042	6.1468	19.0808	0.0754	6.4086	0.0512	6.4598	1.7146	0.0476	1.7623		7,681.6471	7,681.6471	0.3349		7,690.0184

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	881.99	767.18	2,855,748	2,855,748
Total	840.16	881.99	767.18	2,855,748	2,855,748

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Non-Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
NaturalGas Unmitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7460.43	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
<b>Total</b>		<b>0.0805</b>	<b>0.6875</b>	<b>0.2926</b>	<b>4.3900e-003</b>		<b>0.0556</b>	<b>0.0556</b>		<b>0.0556</b>	<b>0.0556</b>		<b>877.6978</b>	<b>877.6978</b>	<b>0.0168</b>	<b>0.0161</b>	<b>882.9135</b>



Litton Bostick Residential Project - South Coast AQMD Air District, Summer

**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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.46043	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
<b>Total</b>		<b>0.0805</b>	<b>0.6875</b>	<b>0.2926</b>	<b>4.3900e-003</b>		<b>0.0556</b>	<b>0.0556</b>		<b>0.0556</b>	<b>0.0556</b>		<b>877.6978</b>	<b>877.6978</b>	<b>0.0168</b>	<b>0.0161</b>	<b>882.9135</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	3.9162	1.5610	7.9729	9.8100e-003		0.1600	0.1600		0.1600	0.1600	0.0000	1,897.9279	1,897.9279	0.0488	0.0346	1,909.4457
Unmitigated	3.9162	1.5610	7.9729	9.8100e-003		0.1600	0.1600		0.1600	0.1600	0.0000	1,897.9279	1,897.9279	0.0488	0.0346	1,909.4457

**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	0.2880					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1728	1.4764	0.6282	9.4200e-003		0.1194	0.1194		0.1194	0.1194	0.0000	1,884.7059	1,884.7059	0.0361	0.0346	1,895.9058
Landscaping	0.2213	0.0847	7.3447	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2220	13.2220	0.0127		13.5399
<b>Total</b>	<b>3.9162</b>	<b>1.5610</b>	<b>7.9729</b>	<b>9.8100e-003</b>		<b>0.1600</b>	<b>0.1600</b>		<b>0.1600</b>	<b>0.1600</b>	<b>0.0000</b>	<b>1,897.9279</b>	<b>1,897.9279</b>	<b>0.0488</b>	<b>0.0346</b>	<b>1,909.4457</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2880					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1728	1.4764	0.6282	9.4200e-003		0.1194	0.1194		0.1194	0.1194	0.0000	1,884.7059	1,884.7059	0.0361	0.0346	1,895.9058
Landscaping	0.2213	0.0847	7.3447	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2220	13.2220	0.0127		13.5399
<b>Total</b>	<b>3.9162</b>	<b>1.5610</b>	<b>7.9729</b>	<b>9.8100e-003</b>		<b>0.1600</b>	<b>0.1600</b>		<b>0.1600</b>	<b>0.1600</b>	<b>0.0000</b>	<b>1,897.9279</b>	<b>1,897.9279</b>	<b>0.0488</b>	<b>0.0346</b>	<b>1,909.4457</b>

**Litton Bostick Residential Project**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.78	Acre	2.78	121,096.80	0
Other Non-Asphalt Surfaces	1.25	Acre	1.25	54,450.00	0
Single Family Housing	89.00	Dwelling Unit	41.58	160,200.00	255

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	592.74	<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 - Litton Bostick Residential Project. SCAQMD. Adjusted CO2 intensity factor to meet a 33% RPS.

Land Use - Project includes 89 single-family residential units.

Construction Phase - Assumed construction start date of January 2020 through August 2022.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

## Litton Bostick Residential Project - South Coast AQMD Air District, Winter

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Grading - Assumed no export or import of soil, site would be balanced.

Vehicle Trips - Adjusted weekday trip rate according to Traffic Impact Analysis (Ganddini Group, Inc).

Woodstoves - Natural gas hearths.

Construction Off-road Equipment Mitigation - Comply with Rule 403 - water three times daily and replace ground cover of area disturbed.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen Compliance.

Waste Mitigation - 75% waste diverted consistent with AB 341.

Trips and VMT - Default trip assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	520.00
tblConstructionPhase	NumDays	55.00	260.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	75.65	89.00
tblFireplaces	NumberNoFireplace	8.90	0.00
tblFireplaces	NumberWood	4.45	0.00
tblLandUse	LotAcreage	28.90	41.58
tblProjectCharacteristics	CO2IntensityFactor	702.44	592.74
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00





**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	2/11/2020	5	30	
2	Grading	Grading	2/12/2020	5/26/2020	5	75	
3	Paving	Paving	5/27/2020	8/11/2020	5	55	
4	Building Construction	Building Construction	8/12/2020	8/9/2022	5	520	
5	Architectural Coating	Architectural Coating	8/11/2021	8/9/2022	5	260	

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

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 4.03**

**Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

### 3.2 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>5.9890</b>	<b>2.1974</b>	<b>8.1864</b>	<b>3.2920</b>	<b>2.0216</b>	<b>5.3136</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</b>

### 3.3 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.1739</b>	<b>10.8472</b>	<b>3.5965</b>	<b>2.0000</b>	<b>5.5965</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.0987</b>	<b>0.0666</b>	<b>0.7362</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>214.0730</b>	<b>214.0730</b>	<b>6.1400e-003</b>		<b>214.2265</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8752	0.0000	2.8752	1.1922	0.0000	1.1922			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>2.8752</b>	<b>2.1739</b>	<b>5.0491</b>	<b>1.1922</b>	<b>2.0000</b>	<b>3.1922</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.0987</b>	<b>0.0666</b>	<b>0.7362</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>214.0730</b>	<b>214.0730</b>	<b>6.1400e-003</b>		<b>214.2265</b>

### 3.4 Paving - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4890</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
<b>Total</b>	<b>0.0740</b>	<b>0.0500</b>	<b>0.5521</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2700e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>160.5547</b>	<b>160.5547</b>	<b>4.6000e-003</b>		<b>160.6699</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4890</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
<b>Total</b>	<b>0.0740</b>	<b>0.0500</b>	<b>0.5521</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2700e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>160.5547</b>	<b>160.5547</b>	<b>4.6000e-003</b>		<b>160.6699</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

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

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	3.9834	1.0586	9.5000e-003	0.2432	0.0201	0.2633	0.0700	0.0192	0.0892		1,012.7487	1,012.7487	0.0703		1,014.5067
Worker	0.5231	0.3530	3.9017	0.0114	1.1848	8.9900e-003	1.1938	0.3142	8.2800e-003	0.3225		1,134.5869	1,134.5869	0.0325		1,135.4003
<b>Total</b>	<b>0.6538</b>	<b>4.3364</b>	<b>4.9604</b>	<b>0.0209</b>	<b>1.4280</b>	<b>0.0290</b>	<b>1.4571</b>	<b>0.3842</b>	<b>0.0275</b>	<b>0.4117</b>		<b>2,147.3355</b>	<b>2,147.3355</b>	<b>0.1029</b>		<b>2,149.9071</b>

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	3.9834	1.0586	9.5000e-003	0.2432	0.0201	0.2633	0.0700	0.0192	0.0892		1,012.7487	1,012.7487	0.0703		1,014.5067
Worker	0.5231	0.3530	3.9017	0.0114	1.1848	8.9900e-003	1.1938	0.3142	8.2800e-003	0.3225		1,134.5869	1,134.5869	0.0325		1,135.4003
<b>Total</b>	<b>0.6538</b>	<b>4.3364</b>	<b>4.9604</b>	<b>0.0209</b>	<b>1.4280</b>	<b>0.0290</b>	<b>1.4571</b>	<b>0.3842</b>	<b>0.0275</b>	<b>0.4117</b>		<b>2,147.3355</b>	<b>2,147.3355</b>	<b>0.1029</b>		<b>2,149.9071</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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1113	3.6128	0.9624	9.4200e-003	0.2432	7.5300e-003	0.2507	0.0700	7.2000e-003	0.0772		1,005.2907	1,005.2907	0.0673		1,006.9723
Worker	0.4889	0.3177	3.5885	0.0110	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,097.8080	1,097.8080	0.0294		1,098.5435
<b>Total</b>	<b>0.6002</b>	<b>3.9304</b>	<b>4.5509</b>	<b>0.0204</b>	<b>1.4280</b>	<b>0.0163</b>	<b>1.4443</b>	<b>0.3842</b>	<b>0.0152</b>	<b>0.3995</b>		<b>2,103.0987</b>	<b>2,103.0987</b>	<b>0.0967</b>		<b>2,105.5158</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1113	3.6128	0.9624	9.4200e-003	0.2432	7.5300e-003	0.2507	0.0700	7.2000e-003	0.0772		1,005.2907	1,005.2907	0.0673		1,006.9723
Worker	0.4889	0.3177	3.5885	0.0110	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,097.8080	1,097.8080	0.0294		1,098.5435
<b>Total</b>	<b>0.6002</b>	<b>3.9304</b>	<b>4.5509</b>	<b>0.0204</b>	<b>1.4280</b>	<b>0.0163</b>	<b>1.4443</b>	<b>0.3842</b>	<b>0.0152</b>	<b>0.3995</b>		<b>2,103.0987</b>	<b>2,103.0987</b>	<b>0.0967</b>		<b>2,105.5158</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.1044	3.4265	0.9101	9.3300e-003	0.2432	6.5300e-003	0.2497	0.0700	6.2500e-003	0.0763		996.3381	996.3381	0.0647		997.9557
Worker	0.4598	0.2869	3.3122	0.0106	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,058.4487	1,058.4487	0.0266		1,059.1129
<b>Total</b>	<b>0.5642</b>	<b>3.7134</b>	<b>4.2223</b>	<b>0.0200</b>	<b>1.4280</b>	<b>0.0150</b>	<b>1.4430</b>	<b>0.3842</b>	<b>0.0141</b>	<b>0.3983</b>		<b>2,054.7868</b>	<b>2,054.7868</b>	<b>0.0913</b>		<b>2,057.0687</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.1044	3.4265	0.9101	9.3300e-003	0.2432	6.5300e-003	0.2497	0.0700	6.2500e-003	0.0763		996.3381	996.3381	0.0647		997.9557
Worker	0.4598	0.2869	3.3122	0.0106	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,058.4487	1,058.4487	0.0266		1,059.1129
<b>Total</b>	<b>0.5642</b>	<b>3.7134</b>	<b>4.2223</b>	<b>0.0200</b>	<b>1.4280</b>	<b>0.0150</b>	<b>1.4430</b>	<b>0.3842</b>	<b>0.0141</b>	<b>0.3983</b>		<b>2,054.7868</b>	<b>2,054.7868</b>	<b>0.0913</b>		<b>2,057.0687</b>

### 3.6 Architectural Coating - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>4.2621</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0969	0.0629	0.7109	2.1800e-003	0.2347	1.7300e-003	0.2365	0.0623	1.5900e-003	0.0638		217.4903	217.4903	5.8300e-003		217.6360
<b>Total</b>	<b>0.0969</b>	<b>0.0629</b>	<b>0.7109</b>	<b>2.1800e-003</b>	<b>0.2347</b>	<b>1.7300e-003</b>	<b>0.2365</b>	<b>0.0623</b>	<b>1.5900e-003</b>	<b>0.0638</b>		<b>217.4903</b>	<b>217.4903</b>	<b>5.8300e-003</b>		<b>217.6360</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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>4.2621</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0969	0.0629	0.7109	2.1800e-003	0.2347	1.7300e-003	0.2365	0.0623	1.5900e-003	0.0638		217.4903	217.4903	5.8300e-003		217.6360
<b>Total</b>	<b>0.0969</b>	<b>0.0629</b>	<b>0.7109</b>	<b>2.1800e-003</b>	<b>0.2347</b>	<b>1.7300e-003</b>	<b>0.2365</b>	<b>0.0623</b>	<b>1.5900e-003</b>	<b>0.0638</b>		<b>217.4903</b>	<b>217.4903</b>	<b>5.8300e-003</b>		<b>217.6360</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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.2477</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0911	0.0568	0.6562	2.1000e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		209.6927	209.6927	5.2600e-003		209.8243
<b>Total</b>	<b>0.0911</b>	<b>0.0568</b>	<b>0.6562</b>	<b>2.1000e-003</b>	<b>0.2347</b>	<b>1.6800e-003</b>	<b>0.2364</b>	<b>0.0623</b>	<b>1.5500e-003</b>	<b>0.0638</b>		<b>209.6927</b>	<b>209.6927</b>	<b>5.2600e-003</b>		<b>209.8243</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	4.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.2477</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0911	0.0568	0.6562	2.1000e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		209.6927	209.6927	5.2600e-003		209.8243
<b>Total</b>	<b>0.0911</b>	<b>0.0568</b>	<b>0.6562</b>	<b>2.1000e-003</b>	<b>0.2347</b>	<b>1.6800e-003</b>	<b>0.2364</b>	<b>0.0623</b>	<b>1.5500e-003</b>	<b>0.0638</b>		<b>209.6927</b>	<b>209.6927</b>	<b>5.2600e-003</b>		<b>209.8243</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	1.3300	6.2700	17.7667	0.0714	6.4086	0.0515	6.4601	1.7146	0.0479	1.7625		7,278.1408	7,278.1408	0.3338		7,286.4865
Unmitigated	1.3300	6.2700	17.7667	0.0714	6.4086	0.0515	6.4601	1.7146	0.0479	1.7625		7,278.1408	7,278.1408	0.3338		7,286.4865

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	840.16	881.99	767.18	2,855,748	2,855,748
<b>Total</b>	<b>840.16</b>	<b>881.99</b>	<b>767.18</b>	<b>2,855,748</b>	<b>2,855,748</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Non-Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
NaturalGas Unmitigated	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7460.43	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
<b>Total</b>		<b>0.0805</b>	<b>0.6875</b>	<b>0.2926</b>	<b>4.3900e-003</b>		<b>0.0556</b>	<b>0.0556</b>		<b>0.0556</b>	<b>0.0556</b>		<b>877.6978</b>	<b>877.6978</b>	<b>0.0168</b>	<b>0.0161</b>	<b>882.9135</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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.46043	0.0805	0.6875	0.2926	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.6978	877.6978	0.0168	0.0161	882.9135
<b>Total</b>		<b>0.0805</b>	<b>0.6875</b>	<b>0.2926</b>	<b>4.3900e-003</b>		<b>0.0556</b>	<b>0.0556</b>		<b>0.0556</b>	<b>0.0556</b>		<b>877.6978</b>	<b>877.6978</b>	<b>0.0168</b>	<b>0.0161</b>	<b>882.9135</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	3.9162	1.5610	7.9729	9.8100e-003		0.1600	0.1600		0.1600	0.1600	0.0000	1,897.9279	1,897.9279	0.0488	0.0346	1,909.4457
Unmitigated	3.9162	1.5610	7.9729	9.8100e-003		0.1600	0.1600		0.1600	0.1600	0.0000	1,897.9279	1,897.9279	0.0488	0.0346	1,909.4457

## 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	0.2880					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1728	1.4764	0.6282	9.4200e-003		0.1194	0.1194		0.1194	0.1194	0.0000	1,884.7059	1,884.7059	0.0361	0.0346	1,895.9058
Landscaping	0.2213	0.0847	7.3447	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2220	13.2220	0.0127		13.5399
<b>Total</b>	<b>3.9162</b>	<b>1.5610</b>	<b>7.9729</b>	<b>9.8100e-003</b>		<b>0.1600</b>	<b>0.1600</b>		<b>0.1600</b>	<b>0.1600</b>	<b>0.0000</b>	<b>1,897.9279</b>	<b>1,897.9279</b>	<b>0.0488</b>	<b>0.0346</b>	<b>1,909.4457</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2880					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2341					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1728	1.4764	0.6282	9.4200e-003		0.1194	0.1194		0.1194	0.1194	0.0000	1,884.7059	1,884.7059	0.0361	0.0346	1,895.9058
Landscaping	0.2213	0.0847	7.3447	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2220	13.2220	0.0127		13.5399
<b>Total</b>	<b>3.9162</b>	<b>1.5610</b>	<b>7.9729</b>	<b>9.8100e-003</b>		<b>0.1600</b>	<b>0.1600</b>		<b>0.1600</b>	<b>0.1600</b>	<b>0.0000</b>	<b>1,897.9279</b>	<b>1,897.9279</b>	<b>0.0488</b>	<b>0.0346</b>	<b>1,909.4457</b>