

**APPENDIX A**  
**Air Quality/Greenhouse Gas Data**

## Alamitos Generating Station Battery Energy Storage System South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	287.10	1000sqft	41.42	287,100.00	0
Parking Lot	333.00	Space	3.00	133,200.00	0
City Park	27.43	Acre	27.43	1,194,850.80	0

#### 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>	9			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Non-open space and parking acreage
- Construction Phase - Proposed Construction Schedule
- Off-road Equipment -
- Off-road Equipment - Proposed Hours/Day
- Off-road Equipment - Proposed Hours/Day
- Off-road Equipment - demo
- Off-road Equipment - Proposed Hours/Day
- Off-road Equipment - Proposed Hours/Day

Trips and VMT - Additional trucks. Truck hauling for pavement debris. Additional trips added for import of aggregate.

Demolition - Demo of existing warehouse buildings and pavement.

Vehicle Trips - Trip rate of 5 employees making average of 4 trips per day. Project's Open Space (City Park LU in model) will not generate trips.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	1,110.00	313.00
tblConstructionPhase	NumDays	70.00	7.00
tblConstructionPhase	NumDays	70.00	312.00
tblConstructionPhase	NumDays	75.00	13.00
tblConstructionPhase	NumDays	40.00	21.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/30/2021	2/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	2/2/2019
tblConstructionPhase	PhaseStartDate	2/2/2020	2/3/2020
tblLandUse	LotAcreage	6.59	41.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00

tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	865.00	2,500.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	2.59	0.07
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	2.59	0.07
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	2.59	0.07

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.5037	73.9721	100.7073	0.2079	22.7840	3.1643	25.4736	12.4667	2.9440	14.9412	0.0000	18,115.0788	18,115.0788	1.8206	0.0000	18,153.3104
2020	8.8070	66.8265	96.1134	0.2078	11.1829	2.8190	14.0019	2.9091	2.6222	5.5313	0.0000	17,610.0785	17,610.0785	1.7915	0.0000	17,647.6991
<b>Total</b>	<b>18.3107</b>	<b>140.7987</b>	<b>196.8207</b>	<b>0.4158</b>	<b>33.9669</b>	<b>5.9833</b>	<b>39.4755</b>	<b>15.3758</b>	<b>5.5663</b>	<b>20.4725</b>	<b>0.0000</b>	<b>35,725.1573</b>	<b>35,725.1573</b>	<b>3.6120</b>	<b>0.0000</b>	<b>35,801.0095</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.5037	73.9721	100.7073	0.2079	9.6967	3.1643	12.8610	4.6525	2.9440	7.1270	0.0000	18,115.078	18,115.078	1.8206	0.0000	18,153.310
2020	8.8070	66.8265	96.1134	0.2078	10.8051	2.8190	13.6241	2.8519	2.6222	5.4741	0.0000	17,610.075	17,610.075	1.7915	0.0000	17,647.699
<b>Total</b>	<b>18.3107</b>	<b>140.7987</b>	<b>196.8207</b>	<b>0.4158</b>	<b>20.5018</b>	<b>5.9833</b>	<b>26.4851</b>	<b>7.5044</b>	<b>5.5663</b>	<b>12.6011</b>	<b>0.0000</b>	<b>35,725.1573</b>	<b>35,725.1573</b>	<b>3.6120</b>	<b>0.0000</b>	<b>35,801.0094</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>39.64</b>	<b>0.00</b>	<b>32.91</b>	<b>51.19</b>	<b>0.00</b>	<b>38.45</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Energy	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
Mobile	0.0655	0.2096	0.7924	2.5800e-003	0.1827	3.5000e-003	0.1862	0.0488	3.2300e-003	0.0520		199.8419	199.8419	7.1500e-003		199.9921
<b>Total</b>	<b>41.4942</b>	<b>0.2804</b>	<b>0.9179</b>	<b>3.0000e-003</b>	<b>0.1827</b>	<b>9.0700e-003</b>	<b>0.1918</b>	<b>0.0488</b>	<b>8.8000e-003</b>	<b>0.0576</b>		<b>284.1934</b>	<b>284.1934</b>	<b>9.1400e-003</b>	<b>1.5400e-003</b>	<b>284.8641</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Energy	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
Mobile	0.0655	0.2096	0.7924	2.5800e-003	0.1827	3.5000e-003	0.1862	0.0488	3.2300e-003	0.0520		199.8419	199.8419	7.1500e-003		199.9921
<b>Total</b>	<b>41.4942</b>	<b>0.2804</b>	<b>0.9179</b>	<b>3.0000e-003</b>	<b>0.1827</b>	<b>9.0700e-003</b>	<b>0.1918</b>	<b>0.0488</b>	<b>8.8000e-003</b>	<b>0.0576</b>		<b>284.1934</b>	<b>284.1934</b>	<b>9.1400e-003</b>	<b>1.5400e-003</b>	<b>284.8641</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	1/24/2019	6	21	
2	Demolition	Demolition	1/25/2019	2/1/2019	6	7	
3	Demolition Pavement	Demolition	2/2/2019	1/31/2020	6	312	
4	Building Construction	Building Construction	2/2/2019	2/1/2020	6	313	
5	Paving	Paving	2/3/2020	2/17/2020	6	13	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	10.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	10.00	97	0.37
Demolition	Concrete/Industrial Saws	1	10.00	81	0.73
Demolition	Excavators	3	10.00	162	0.38
Demolition	Rubber Tired Dozers	2	10.00	255	0.40
Demolition Pavement	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Pavement	Excavators	0	4.00	162	0.38
Demolition Pavement	Other Construction Equipment	1	1.00	171	0.42
Demolition Pavement	Rubber Tired Dozers	2	8.00	255	0.40
Building Construction	Cranes	1	10.00	226	0.29
Building Construction	Forklifts	3	10.00	89	0.20
Building Construction	Generator Sets	1	10.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	10.00	97	0.37
Building Construction	Welders	1	10.00	46	0.45
Paving	Pavers	2	10.00	125	0.42
Paving	Paving Equipment	2	10.00	130	0.36
Paving	Rollers	2	10.00	80	0.38

**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
Demolition	6	15.00	0.00	52.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Pavement	3	8.00	0.00	2,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	678.00	265.00	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

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Preparation - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					22.5828	0.0000	22.5828	12.4134	0.0000	12.4134			0.0000			0.0000
Off-Road	5.0235	53.1308	43.5110	0.0489		2.6881	2.6881		2.4730	2.4730		4,845.9042	4,845.9042	1.5332		4,878.1012
<b>Total</b>	<b>5.0235</b>	<b>53.1308</b>	<b>43.5110</b>	<b>0.0489</b>	<b>22.5828</b>	<b>2.6881</b>	<b>25.2709</b>	<b>12.4134</b>	<b>2.4730</b>	<b>14.8864</b>		<b>4,845.9042</b>	<b>4,845.9042</b>	<b>1.5332</b>		<b>4,878.1012</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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
<b>Total</b>	<b>0.0568</b>	<b>0.0773</b>	<b>0.8050</b>	<b>2.3800e-003</b>	<b>0.2012</b>	<b>1.5500e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4300e-003</b>	<b>0.0548</b>		<b>178.8240</b>	<b>178.8240</b>	<b>8.8000e-003</b>		<b>179.0089</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					8.3669	0.0000	8.3669	4.5992	0.0000	4.5992			0.0000			0.0000
Off-Road	5.0235	53.1308	43.5110	0.0489		2.6881	2.6881		2.4730	2.4730	0.0000	4,845.9042	4,845.9042	1.5332		4,878.1012
<b>Total</b>	<b>5.0235</b>	<b>53.1308</b>	<b>43.5110</b>	<b>0.0489</b>	<b>8.3669</b>	<b>2.6881</b>	<b>11.0550</b>	<b>4.5992</b>	<b>2.4730</b>	<b>7.0722</b>	<b>0.0000</b>	<b>4,845.9042</b>	<b>4,845.9042</b>	<b>1.5332</b>		<b>4,878.1012</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	0.0568	0.0773	0.8050	2.3800e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		178.8240	178.8240	8.8000e-003		179.0089
<b>Total</b>	<b>0.0568</b>	<b>0.0773</b>	<b>0.8050</b>	<b>2.3800e-003</b>	<b>0.2012</b>	<b>1.5500e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4300e-003</b>	<b>0.0548</b>		<b>178.8240</b>	<b>178.8240</b>	<b>8.8000e-003</b>		<b>179.0089</b>

### **3.3 Demolition - 2019**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Fugitive Dust					1.6172	0.0000	1.6172	0.2449	0.0000	0.2449			0.0000		0.0000
Off-Road	4.1530	42.4266	38.5063	0.0499		2.0560	2.0560		1.9145	1.9145		4,911.5408	4,911.5408	1.3717	4,940.3468
<b>Total</b>	<b>4.1530</b>	<b>42.4266</b>	<b>38.5063</b>	<b>0.0499</b>	<b>1.6172</b>	<b>2.0560</b>	<b>3.6731</b>	<b>0.2449</b>	<b>1.9145</b>	<b>2.1593</b>		<b>4,911.5408</b>	<b>4,911.5408</b>	<b>1.3717</b>	<b>4,940.3468</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	0.1206	1.6964	1.5411	5.4400e-003	0.1295	0.0292	0.1586	0.0355	0.0268	0.0623		522.9743	522.9743	3.9700e-003		523.0576
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	0.0474	0.0644	0.6709	1.9800e-003	0.1677	1.2900e-003	0.1690	0.0445	1.2000e-003	0.0457		149.0200	149.0200	7.3300e-003		149.1741
<b>Total</b>	<b>0.1679</b>	<b>1.7608</b>	<b>2.2119</b>	<b>7.4200e-003</b>	<b>0.2971</b>	<b>0.0305</b>	<b>0.3276</b>	<b>0.0799</b>	<b>0.0280</b>	<b>0.1079</b>		<b>671.9944</b>	<b>671.9944</b>	<b>0.0113</b>		<b>672.2317</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	4.1530	42.4266	38.5063	0.0499		2.0560	2.0560		1.9145	1.9145	0.0000	4,911.5408	4,911.5408	1.3717		4,940.3468

<b>Total</b>	<b>4.1530</b>	<b>42.4266</b>	<b>38.5063</b>	<b>0.0499</b>	<b>0.5992</b>	<b>2.0560</b>	<b>2.6552</b>	<b>0.0907</b>	<b>1.9145</b>	<b>2.0052</b>	<b>0.0000</b>	<b>4,911.5408</b>	<b>4,911.5408</b>	<b>1.3717</b>		<b>4,940.3468</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1206	1.6964	1.5411	5.4400e-003	0.1295	0.0292	0.1586	0.0355	0.0268	0.0623		522.9743	522.9743	3.9700e-003		523.0576
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	0.0474	0.0644	0.6709	1.9800e-003	0.1677	1.2900e-003	0.1690	0.0445	1.2000e-003	0.0457		149.0200	149.0200	7.3300e-003		149.1741
<b>Total</b>	<b>0.1679</b>	<b>1.7608</b>	<b>2.2119</b>	<b>7.4200e-003</b>	<b>0.2971</b>	<b>0.0305</b>	<b>0.3276</b>	<b>0.0799</b>	<b>0.0280</b>	<b>0.1079</b>		<b>671.9944</b>	<b>671.9944</b>	<b>0.0113</b>		<b>672.2317</b>

**3.4 Demolition Pavement - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6001	0.0000	0.6001	0.0909	0.0000	0.0909			0.0000			0.0000
Off-Road	2.1236	22.8053	17.5809	0.0186		1.0545	1.0545		0.9701	0.9701		1,840.4434	1,840.4434	0.5823		1,852.6716
<b>Total</b>	<b>2.1236</b>	<b>22.8053</b>	<b>17.5809</b>	<b>0.0186</b>	<b>0.6001</b>	<b>1.0545</b>	<b>1.6546</b>	<b>0.0909</b>	<b>0.9701</b>	<b>1.0610</b>		<b>1,840.4434</b>	<b>1,840.4434</b>	<b>0.5823</b>		<b>1,852.6716</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	0.1301	1.8298	1.6623	5.8700e-003	0.1497	0.0315	0.1811	0.0407	0.0289	0.0696		564.1057	564.1057	4.2800e-003		564.1955
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	0.0253	0.0344	0.3578	1.0600e-003	0.0894	6.9000e-004	0.0901	0.0237	6.4000e-004	0.0244		79.4774	79.4774	3.9100e-003		79.5595
<b>Total</b>	<b>0.1553</b>	<b>1.8641</b>	<b>2.0201</b>	<b>6.9300e-003</b>	<b>0.2391</b>	<b>0.0321</b>	<b>0.2713</b>	<b>0.0644</b>	<b>0.0296</b>	<b>0.0940</b>		<b>643.5830</b>	<b>643.5830</b>	<b>8.1900e-003</b>		<b>643.7550</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2224	0.0000	0.2224	0.0337	0.0000	0.0337			0.0000			0.0000
Off-Road	2.1236	22.8053	17.5809	0.0186		1.0545	1.0545		0.9701	0.9701	0.0000	1,840.4434	1,840.4434	0.5823		1,852.6716
<b>Total</b>	<b>2.1236</b>	<b>22.8053</b>	<b>17.5809</b>	<b>0.0186</b>	<b>0.2224</b>	<b>1.0545</b>	<b>1.2768</b>	<b>0.0337</b>	<b>0.9701</b>	<b>1.0038</b>	<b>0.0000</b>	<b>1,840.4434</b>	<b>1,840.4434</b>	<b>0.5823</b>		<b>1,852.6716</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	0.1301	1.8298	1.6623	5.8700e-003	0.1497	0.0315	0.1811	0.0407	0.0289	0.0696		564.1057	564.1057	4.2800e-003		564.1955
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	0.0253	0.0344	0.3578	1.0600e-003	0.0894	6.9000e-004	0.0901	0.0237	6.4000e-004	0.0244		79.4774	79.4774	3.9100e-003		79.5595
<b>Total</b>	<b>0.1553</b>	<b>1.8641</b>	<b>2.0201</b>	<b>6.9300e-003</b>	<b>0.2391</b>	<b>0.0321</b>	<b>0.2713</b>	<b>0.0644</b>	<b>0.0296</b>	<b>0.0940</b>		<b>643.5830</b>	<b>643.5830</b>	<b>8.1900e-003</b>		<b>643.7550</b>

### 3.4 Demolition Pavement - 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					0.6001	0.0000	0.6001	0.0909	0.0000	0.0909			0.0000				0.0000
Off-Road	1.9861	20.9467	16.3840	0.0186		0.9666	0.9666		0.8893	0.8893		1,800.5537	1,800.5537	0.5823			1,812.7828
<b>Total</b>	<b>1.9861</b>	<b>20.9467</b>	<b>16.3840</b>	<b>0.0186</b>	<b>0.6001</b>	<b>0.9666</b>	<b>1.5667</b>	<b>0.0909</b>	<b>0.8893</b>	<b>0.9802</b>		<b>1,800.5537</b>	<b>1,800.5537</b>	<b>0.5823</b>			<b>1,812.7828</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	0.1273	1.6313	1.6416	5.8700e-003	1.2579	0.0312	1.2891	0.3127	0.0287	0.3414		551.4017	551.4017	4.2800e-003		551.4916
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	0.0237	0.0318	0.3329	1.0600e-003	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0244		76.2479	76.2479	3.7000e-003		76.3257
<b>Total</b>	<b>0.1510</b>	<b>1.6631</b>	<b>1.9744</b>	<b>6.9300e-003</b>	<b>1.3473</b>	<b>0.0319</b>	<b>1.3792</b>	<b>0.3364</b>	<b>0.0293</b>	<b>0.3658</b>		<b>627.6495</b>	<b>627.6495</b>	<b>7.9800e-003</b>		<b>627.8173</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2224	0.0000	0.2224	0.0337	0.0000	0.0337			0.0000			0.0000
Off-Road	1.9861	20.9467	16.3840	0.0186		0.9666	0.9666		0.8893	0.8893	0.0000	1,800.5537	1,800.5537	0.5823		1,812.7828
<b>Total</b>	<b>1.9861</b>	<b>20.9467</b>	<b>16.3840</b>	<b>0.0186</b>	<b>0.2224</b>	<b>0.9666</b>	<b>1.1890</b>	<b>0.0337</b>	<b>0.8893</b>	<b>0.9230</b>	<b>0.0000</b>	<b>1,800.5537</b>	<b>1,800.5537</b>	<b>0.5823</b>		<b>1,812.7828</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	0.1273	1.6313	1.6416	5.8700e-003	1.2579	0.0312	1.2891	0.3127	0.0287	0.3414		551.4017	551.4017	4.2800e-003		551.4916
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	0.0237	0.0318	0.3329	1.0600e-003	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0244		76.2479	76.2479	3.7000e-003		76.3257
<b>Total</b>	<b>0.1510</b>	<b>1.6631</b>	<b>1.9744</b>	<b>6.9300e-003</b>	<b>1.3473</b>	<b>0.0319</b>	<b>1.3792</b>	<b>0.3364</b>	<b>0.0293</b>	<b>0.3658</b>		<b>627.6495</b>	<b>627.6495</b>	<b>7.9800e-003</b>		<b>627.8173</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1257	28.2202	22.8304	0.0358		1.7184	1.7184		1.6135	1.6135		3,457.4323	3,457.4323	0.8581		3,475.4529
<b>Total</b>	<b>3.1257</b>	<b>28.2202</b>	<b>22.8304</b>	<b>0.0358</b>		<b>1.7184</b>	<b>1.7184</b>		<b>1.6135</b>	<b>1.6135</b>		<b>3,457.4323</b>	<b>3,457.4323</b>	<b>0.8581</b>		<b>3,475.4529</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	1.9585	18.1711	27.9528	0.0569	1.6568	0.3010	1.9578	0.4719	0.2769	0.7488		5,437.9148	5,437.9148	0.0404		5,438.7635
Worker	2.1405	2.9114	30.3231	0.0897	7.5784	0.0583	7.6367	2.0098	0.0540	2.0639		6,735.7054	6,735.7054	0.3315		6,742.6674
<b>Total</b>	<b>4.0991</b>	<b>21.0825</b>	<b>58.2759</b>	<b>0.1466</b>	<b>9.2353</b>	<b>0.3592</b>	<b>9.5945</b>	<b>2.4818</b>	<b>0.3309</b>	<b>2.8126</b>		<b>12,173.6201</b>	<b>12,173.6201</b>	<b>0.3719</b>		<b>12,181.4308</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	3.1257	28.2202	22.8304	0.0358		1.7184	1.7184		1.6135	1.6135	0.0000	3,457.4323	3,457.4323	0.8581		3,475.4529

Total	3.1257	28.2202	22.8304	0.0358		1.7184	1.7184		1.6135	1.6135	0.0000	3,457.4323	3,457.4323	0.8581		3,475.4529
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9585	18.1711	27.9528	0.0569	1.6568	0.3010	1.9578	0.4719	0.2769	0.7488		5,437.9148	5,437.9148	0.0404		5,438.7635
Worker	2.1405	2.9114	30.3231	0.0897	7.5784	0.0583	7.6367	2.0098	0.0540	2.0639		6,735.7054	6,735.7054	0.3315		6,742.6674
<b>Total</b>	<b>4.0991</b>	<b>21.0825</b>	<b>58.2759</b>	<b>0.1466</b>	<b>9.2353</b>	<b>0.3592</b>	<b>9.5945</b>	<b>2.4818</b>	<b>0.3309</b>	<b>2.8126</b>		<b>12,173.6201</b>	<b>12,173.6201</b>	<b>0.3719</b>		<b>12,181.4308</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	2.8066	25.6659	22.4025	0.0358		1.4874	1.4874		1.3968	1.3968		3,404.5062	3,404.5062	0.8475		3,422.3040
<b>Total</b>	<b>2.8066</b>	<b>25.6659</b>	<b>22.4025</b>	<b>0.0358</b>		<b>1.4874</b>	<b>1.4874</b>		<b>1.3968</b>	<b>1.3968</b>		<b>3,404.5062</b>	<b>3,404.5062</b>	<b>0.8475</b>		<b>3,422.3040</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	1.8573	15.8528	27.1414	0.0568	1.6570	0.2752	1.9322	0.4720	0.2532	0.7251		5,315.3627	5,315.3627	0.0396		5,316.1948
Worker	2.0060	2.6980	28.2110	0.0897	7.5784	0.0579	7.6364	2.0098	0.0537	2.0636		6,462.0064	6,462.0064	0.3140		6,468.6003
<b>Total</b>	<b>3.8633</b>	<b>18.5509</b>	<b>55.3524</b>	<b>0.1465</b>	<b>9.2354</b>	<b>0.3331</b>	<b>9.5685</b>	<b>2.4818</b>	<b>0.3069</b>	<b>2.7887</b>		<b>11,777.3691</b>	<b>11,777.3691</b>	<b>0.3536</b>		<b>11,784.7950</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	2.8066	25.6659	22.4025	0.0358		1.4874	1.4874		1.3968	1.3968	0.0000	3,404.5062	3,404.5062	0.8475		3,422.3040
<b>Total</b>	<b>2.8066</b>	<b>25.6659</b>	<b>22.4025</b>	<b>0.0358</b>		<b>1.4874</b>	<b>1.4874</b>		<b>1.3968</b>	<b>1.3968</b>	<b>0.0000</b>	<b>3,404.5062</b>	<b>3,404.5062</b>	<b>0.8475</b>		<b>3,422.3040</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8573	15.8528	27.1414	0.0568	1.6570	0.2752	1.9322	0.4720	0.2532	0.7251		5,315.3627	5,315.3627	0.0396		5,316.1948
Worker	2.0060	2.6980	28.2110	0.0897	7.5784	0.0579	7.6364	2.0098	0.0537	2.0636		6,462.0064	6,462.0064	0.3140		6,468.6003
<b>Total</b>	<b>3.8633</b>	<b>18.5509</b>	<b>55.3524</b>	<b>0.1465</b>	<b>9.2354</b>	<b>0.3331</b>	<b>9.5685</b>	<b>2.4818</b>	<b>0.3069</b>	<b>2.7887</b>		<b>11,777.3691</b>	<b>11,777.3691</b>	<b>0.3536</b>		<b>11,784.7950</b>

### 3.6 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	1.6626	17.2306	17.9404	0.0279		0.9238	0.9238		0.8499	0.8499		2,700.9464	2,700.9464	0.8735		2,719.2907
Paving	0.6046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2672</b>	<b>17.2306</b>	<b>17.9404</b>	<b>0.0279</b>		<b>0.9238</b>	<b>0.9238</b>		<b>0.8499</b>	<b>0.8499</b>		<b>2,700.9464</b>	<b>2,700.9464</b>	<b>0.8735</b>		<b>2,719.2907</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	0.0444	0.0597	0.6241	1.9800e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		142.9647	142.9647	6.9500e-003		143.1106
<b>Total</b>	<b>0.0444</b>	<b>0.0597</b>	<b>0.6241</b>	<b>1.9800e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>142.9647</b>	<b>142.9647</b>	<b>6.9500e-003</b>		<b>143.1106</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	1.6626	17.2306	17.9404	0.0279		0.9238	0.9238		0.8499	0.8499	0.0000	2,700.9464	2,700.9464	0.8735		2,719.2907
Paving	0.6046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2672</b>	<b>17.2306</b>	<b>17.9404</b>	<b>0.0279</b>		<b>0.9238</b>	<b>0.9238</b>		<b>0.8499</b>	<b>0.8499</b>	<b>0.0000</b>	<b>2,700.9464</b>	<b>2,700.9464</b>	<b>0.8735</b>		<b>2,719.2907</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	0.0444	0.0597	0.6241	1.9800e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		142.9647	142.9647	6.9500e-003		143.1106
<b>Total</b>	<b>0.0444</b>	<b>0.0597</b>	<b>0.6241</b>	<b>1.9800e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>142.9647</b>	<b>142.9647</b>	<b>6.9500e-003</b>		<b>143.1106</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0655	0.2096	0.7924	2.5800e-003	0.1827	3.5000e-003	0.1862	0.0488	3.2300e-003	0.0520		199.8419	199.8419	7.1500e-003		199.9921
Unmitigated	0.0655	0.2096	0.7924	2.5800e-003	0.1827	3.5000e-003	0.1862	0.0488	3.2300e-003	0.0520		199.8419	199.8419	7.1500e-003		199.9921

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.10	20.10	20.10	86,130	86,130
Total	20.10	20.10	20.10	86,130	86,130

#### 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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

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	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
NaturalGas Unmitigated	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223

## 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					
Parking Lot	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
Unrefrigerated Warehouse-No	715.784	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.7200e-003</b>	<b>0.0702</b>	<b>0.0590</b>	<b>4.2000e-004</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>84.2098</b>	<b>84.2098</b>	<b>1.6100e-003</b>	<b>1.5400e-003</b>	<b>84.7223</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	lb/day									lb/day						
Unrefrigerated Warehouse-No	0.715784	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
City Park	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.7200e-003</b>	<b>0.0702</b>	<b>0.0590</b>	<b>4.2000e-004</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>84.2098</b>	<b>84.2098</b>	<b>1.6100e-003</b>	<b>1.5400e-003</b>	<b>84.7223</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	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Unmitigated	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497

## 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	9.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	31.9800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2600e-003	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
<b>Total</b>	<b>41.4210</b>	<b>6.1000e-004</b>	<b>0.0665</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>0.1417</b>	<b>0.1417</b>	<b>3.8000e-004</b>		<b>0.1497</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	9.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.9800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2600e-003	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
<b>Total</b>	<b>41.4210</b>	<b>6.1000e-004</b>	<b>0.0665</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>0.1417</b>	<b>0.1417</b>	<b>3.8000e-004</b>		<b>0.1497</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

## Alamitos Generating Station Battery Energy Storage System South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	287.10	1000sqft	41.42	287,100.00	0
Parking Lot	333.00	Space	3.00	133,200.00	0
City Park	27.43	Acre	27.43	1,194,850.80	0

#### 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>	9			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Non-open space and parking acreage

Construction Phase - Proposed Construction Schedule

Off-road Equipment -

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - demo

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - Proposed Hours/Day



Trips and VMT - Additional trucks. Truck hauling for pavement debris. Additional trips added for import of aggregate.

Demolition - Demo of existing warehouse buildings and pavement.

Vehicle Trips - Trip rate of 5 employees making average of 4 trips per day. Project's Open Space (City Park LU in model) will not generate trips.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	1,110.00	313.00
tblConstructionPhase	NumDays	70.00	7.00
tblConstructionPhase	NumDays	70.00	312.00
tblConstructionPhase	NumDays	75.00	13.00
tblConstructionPhase	NumDays	40.00	21.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/30/2021	2/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	2/2/2019
tblConstructionPhase	PhaseStartDate	2/2/2020	2/3/2020
tblLandUse	LotAcreage	6.59	41.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00

tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	865.00	2,500.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	2.59	0.07
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	2.59	0.07
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	2.59	0.07

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.3068	73.2283	98.2664	0.2145	22.7840	3.1615	25.4736	12.4667	2.9415	14.9412	0.0000	18,617.3482	18,617.3482	1.8192	0.0000	18,655.5511
2020	8.6236	66.1746	93.5689	0.2144	11.1829	2.8167	13.9996	2.9091	2.6201	5.5292	0.0000	18,094.1134	18,094.1134	1.7901	0.0000	18,131.7045
<b>Total</b>	<b>17.9304</b>	<b>139.4029</b>	<b>191.8353</b>	<b>0.4289</b>	<b>33.9669</b>	<b>5.9782</b>	<b>39.4732</b>	<b>15.3758</b>	<b>5.5616</b>	<b>20.4704</b>	<b>0.0000</b>	<b>36,711.4617</b>	<b>36,711.4617</b>	<b>3.6092</b>	<b>0.0000</b>	<b>36,787.2556</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	9.3068	73.2283	98.2664	0.2145	9.6967	3.1615	12.8582	4.6525	2.9415	7.1270	0.0000	18,617.3482	18,617.3482	1.8192	0.0000	18,655.5511
2020	8.6236	66.1746	93.5689	0.2144	10.8051	2.8167	13.6218	2.8519	2.6201	5.4720	0.0000	18,094.1134	18,094.1134	1.7901	0.0000	18,131.7045
<b>Total</b>	<b>17.9304</b>	<b>139.4029</b>	<b>191.8353</b>	<b>0.4289</b>	<b>20.5018</b>	<b>5.9782</b>	<b>26.4800</b>	<b>7.5044</b>	<b>5.5616</b>	<b>12.5990</b>	<b>0.0000</b>	<b>36,711.4617</b>	<b>36,711.4617</b>	<b>3.6092</b>	<b>0.0000</b>	<b>36,787.2556</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>39.64</b>	<b>0.00</b>	<b>32.92</b>	<b>51.19</b>	<b>0.00</b>	<b>38.45</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Energy	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
Mobile	0.0640	0.1992	0.8180	2.7200e-003	0.1827	3.4900e-003	0.1862	0.0488	3.2200e-003	0.0520		209.8480	209.8480	7.1500e-003		209.9981
<b>Total</b>	<b>41.4927</b>	<b>0.2700</b>	<b>0.9435</b>	<b>3.1400e-003</b>	<b>0.1827</b>	<b>9.0600e-003</b>	<b>0.1918</b>	<b>0.0488</b>	<b>8.7900e-003</b>	<b>0.0576</b>		<b>294.1996</b>	<b>294.1996</b>	<b>9.1400e-003</b>	<b>1.5400e-003</b>	<b>294.8701</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Energy	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
Mobile	0.0640	0.1992	0.8180	2.7200e-003	0.1827	3.4900e-003	0.1862	0.0488	3.2200e-003	0.0520		209.8480	209.8480	7.1500e-003		209.9981
<b>Total</b>	<b>41.4927</b>	<b>0.2700</b>	<b>0.9435</b>	<b>3.1400e-003</b>	<b>0.1827</b>	<b>9.0600e-003</b>	<b>0.1918</b>	<b>0.0488</b>	<b>8.7900e-003</b>	<b>0.0576</b>		<b>294.1996</b>	<b>294.1996</b>	<b>9.1400e-003</b>	<b>1.5400e-003</b>	<b>294.8701</b>

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

### 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	1/1/2019	1/24/2019	6	21	
2	Demolition	Demolition	1/25/2019	2/1/2019	6	7	
3	Demolition Pavement	Demolition	2/2/2019	1/31/2020	6	312	
4	Building Construction	Building Construction	2/2/2019	2/1/2020	6	313	
5	Paving	Paving	2/3/2020	2/17/2020	6	13	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	10.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	10.00	97	0.37
Demolition	Concrete/Industrial Saws	1	10.00	81	0.73
Demolition	Excavators	3	10.00	162	0.38
Demolition	Rubber Tired Dozers	2	10.00	255	0.40
Demolition Pavement	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Pavement	Excavators	0	4.00	162	0.38
Demolition Pavement	Other Construction Equipment	1	1.00	171	0.42
Demolition Pavement	Rubber Tired Dozers	2	8.00	255	0.40
Building Construction	Cranes	1	10.00	226	0.29
Building Construction	Forklifts	3	10.00	89	0.20
Building Construction	Generator Sets	1	10.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	10.00	97	0.37
Building Construction	Welders	1	10.00	46	0.45
Paving	Pavers	2	10.00	125	0.42
Paving	Paving Equipment	2	10.00	130	0.36
Paving	Rollers	2	10.00	80	0.38

**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
Demolition	6	15.00	0.00	52.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Pavement	3	8.00	0.00	2,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	678.00	265.00	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

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Preparation - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					22.5828	0.0000	22.5828	12.4134	0.0000	12.4134			0.0000			0.0000
Off-Road	5.0235	53.1308	43.5110	0.0489		2.6881	2.6881		2.4730	2.4730		4,845.9042	4,845.9042	1.5332		4,878.1012
<b>Total</b>	<b>5.0235</b>	<b>53.1308</b>	<b>43.5110</b>	<b>0.0489</b>	<b>22.5828</b>	<b>2.6881</b>	<b>25.2709</b>	<b>12.4134</b>	<b>2.4730</b>	<b>14.8864</b>		<b>4,845.9042</b>	<b>4,845.9042</b>	<b>1.5332</b>		<b>4,878.1012</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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
<b>Total</b>	<b>0.0559</b>	<b>0.0704</b>	<b>0.8824</b>	<b>2.5400e-003</b>	<b>0.2012</b>	<b>1.5500e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4300e-003</b>	<b>0.0548</b>		<b>190.7507</b>	<b>190.7507</b>	<b>8.8000e-003</b>		<b>190.9356</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					8.3669	0.0000	8.3669	4.5992	0.0000	4.5992			0.0000			0.0000
Off-Road	5.0235	53.1308	43.5110	0.0489		2.6881	2.6881		2.4730	2.4730	0.0000	4,845.9042	4,845.9042	1.5332		4,878.1012
<b>Total</b>	<b>5.0235</b>	<b>53.1308</b>	<b>43.5110</b>	<b>0.0489</b>	<b>8.3669</b>	<b>2.6881</b>	<b>11.0550</b>	<b>4.5992</b>	<b>2.4730</b>	<b>7.0722</b>	<b>0.0000</b>	<b>4,845.9042</b>	<b>4,845.9042</b>	<b>1.5332</b>		<b>4,878.1012</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	0.0559	0.0704	0.8824	2.5400e-003	0.2012	1.5500e-003	0.2028	0.0534	1.4300e-003	0.0548		190.7507	190.7507	8.8000e-003		190.9356
<b>Total</b>	<b>0.0559</b>	<b>0.0704</b>	<b>0.8824</b>	<b>2.5400e-003</b>	<b>0.2012</b>	<b>1.5500e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4300e-003</b>	<b>0.0548</b>		<b>190.7507</b>	<b>190.7507</b>	<b>8.8000e-003</b>		<b>190.9356</b>

**3.3 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Fugitive Dust					1.6172	0.0000	1.6172	0.2449	0.0000	0.2449			0.0000		0.0000
Off-Road	4.1530	42.4266	38.5063	0.0499		2.0560	2.0560		1.9145	1.9145		4,911.5408	4,911.5408	1.3717	4,940.3468
<b>Total</b>	<b>4.1530</b>	<b>42.4266</b>	<b>38.5063</b>	<b>0.0499</b>	<b>1.6172</b>	<b>2.0560</b>	<b>3.6731</b>	<b>0.2449</b>	<b>1.9145</b>	<b>2.1593</b>		<b>4,911.5408</b>	<b>4,911.5408</b>	<b>1.3717</b>	<b>4,940.3468</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	0.1153	1.6375	1.3279	5.4500e-003	0.1295	0.0291	0.1586	0.0355	0.0268	0.0622		524.2252	524.2252	3.9100e-003		524.3072
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	0.0466	0.0587	0.7353	2.1200e-003	0.1677	1.2900e-003	0.1690	0.0445	1.2000e-003	0.0457		158.9589	158.9589	7.3300e-003		159.1130
<b>Total</b>	<b>0.1619</b>	<b>1.6962</b>	<b>2.0632</b>	<b>7.5700e-003</b>	<b>0.2971</b>	<b>0.0304</b>	<b>0.3275</b>	<b>0.0799</b>	<b>0.0280</b>	<b>0.1079</b>		<b>683.1841</b>	<b>683.1841</b>	<b>0.0112</b>		<b>683.4202</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	4.1530	42.4266	38.5063	0.0499		2.0560	2.0560		1.9145	1.9145	0.0000	4,911.5408	4,911.5408	1.3717		4,940.3468



<b>Total</b>	<b>4.1530</b>	<b>42.4266</b>	<b>38.5063</b>	<b>0.0499</b>	<b>0.5992</b>	<b>2.0560</b>	<b>2.6552</b>	<b>0.0907</b>	<b>1.9145</b>	<b>2.0052</b>	<b>0.0000</b>	<b>4,911.5408</b>	<b>4,911.5408</b>	<b>1.3717</b>		<b>4,940.3468</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1153	1.6375	1.3279	5.4500e-003	0.1295	0.0291	0.1586	0.0355	0.0268	0.0622		524.2252	524.2252	3.9100e-003		524.3072
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	0.0466	0.0587	0.7353	2.1200e-003	0.1677	1.2900e-003	0.1690	0.0445	1.2000e-003	0.0457		158.9589	158.9589	7.3300e-003		159.1130
<b>Total</b>	<b>0.1619</b>	<b>1.6962</b>	<b>2.0632</b>	<b>7.5700e-003</b>	<b>0.2971</b>	<b>0.0304</b>	<b>0.3275</b>	<b>0.0799</b>	<b>0.0280</b>	<b>0.1079</b>		<b>683.1841</b>	<b>683.1841</b>	<b>0.0112</b>		<b>683.4202</b>

**3.4 Demolition Pavement - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6001	0.0000	0.6001	0.0909	0.0000	0.0909			0.0000			0.0000
Off-Road	2.1236	22.8053	17.5809	0.0186		1.0545	1.0545		0.9701	0.9701		1,840.4434	1,840.4434	0.5823		1,852.6716
<b>Total</b>	<b>2.1236</b>	<b>22.8053</b>	<b>17.5809</b>	<b>0.0186</b>	<b>0.6001</b>	<b>1.0545</b>	<b>1.6546</b>	<b>0.0909</b>	<b>0.9701</b>	<b>1.0610</b>		<b>1,840.4434</b>	<b>1,840.4434</b>	<b>0.5823</b>		<b>1,852.6716</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	0.1243	1.7663	1.4324	5.8800e-003	0.1497	0.0314	0.1811	0.0407	0.0289	0.0696		565.4549	565.4549	4.2200e-003		565.5434
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	0.0248	0.0313	0.3922	1.1300e-003	0.0894	6.9000e-004	0.0901	0.0237	6.4000e-004	0.0244		84.7781	84.7781	3.9100e-003		84.8603
<b>Total</b>	<b>0.1492</b>	<b>1.7976</b>	<b>1.8245</b>	<b>7.0100e-003</b>	<b>0.2391</b>	<b>0.0321</b>	<b>0.2712</b>	<b>0.0644</b>	<b>0.0295</b>	<b>0.0939</b>		<b>650.2330</b>	<b>650.2330</b>	<b>8.1300e-003</b>		<b>650.4037</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2224	0.0000	0.2224	0.0337	0.0000	0.0337			0.0000			0.0000
Off-Road	2.1236	22.8053	17.5809	0.0186		1.0545	1.0545		0.9701	0.9701	0.0000	1,840.4434	1,840.4434	0.5823		1,852.6716
<b>Total</b>	<b>2.1236</b>	<b>22.8053</b>	<b>17.5809</b>	<b>0.0186</b>	<b>0.2224</b>	<b>1.0545</b>	<b>1.2768</b>	<b>0.0337</b>	<b>0.9701</b>	<b>1.0038</b>	<b>0.0000</b>	<b>1,840.4434</b>	<b>1,840.4434</b>	<b>0.5823</b>		<b>1,852.6716</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	0.1243	1.7663	1.4324	5.8800e-003	0.1497	0.0314	0.1811	0.0407	0.0289	0.0696		565.4549	565.4549	4.2200e-003		565.5434
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	0.0248	0.0313	0.3922	1.1300e-003	0.0894	6.9000e-004	0.0901	0.0237	6.4000e-004	0.0244		84.7781	84.7781	3.9100e-003		84.8603
<b>Total</b>	<b>0.1492</b>	<b>1.7976</b>	<b>1.8245</b>	<b>7.0100e-003</b>	<b>0.2391</b>	<b>0.0321</b>	<b>0.2712</b>	<b>0.0644</b>	<b>0.0295</b>	<b>0.0939</b>		<b>650.2330</b>	<b>650.2330</b>	<b>8.1300e-003</b>		<b>650.4037</b>

### 3.4 Demolition Pavement - 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					0.6001	0.0000	0.6001	0.0909	0.0000	0.0909			0.0000			0.0000
Off-Road	1.9861	20.9467	16.3840	0.0186		0.9666	0.9666		0.8893	0.8893		1,800.5537	1,800.5537	0.5823		1,812.7828
<b>Total</b>	<b>1.9861</b>	<b>20.9467</b>	<b>16.3840</b>	<b>0.0186</b>	<b>0.6001</b>	<b>0.9666</b>	<b>1.5667</b>	<b>0.0909</b>	<b>0.8893</b>	<b>0.9802</b>		<b>1,800.5537</b>	<b>1,800.5537</b>	<b>0.5823</b>		<b>1,812.7828</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	0.1220	1.5749	1.4112	5.8800e-003	1.2579	0.0311	1.2890	0.3127	0.0286	0.3414		552.7216	552.7216	4.2200e-003		552.8102
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	0.0233	0.0290	0.3656	1.1300e-003	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0244		81.3470	81.3470	3.7000e-003		81.4248
<b>Total</b>	<b>0.1453</b>	<b>1.6039</b>	<b>1.7768</b>	<b>7.0100e-003</b>	<b>1.3473</b>	<b>0.0318</b>	<b>1.3791</b>	<b>0.3364</b>	<b>0.0293</b>	<b>0.3657</b>		<b>634.0686</b>	<b>634.0686</b>	<b>7.9200e-003</b>		<b>634.2350</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2224	0.0000	0.2224	0.0337	0.0000	0.0337			0.0000			0.0000
Off-Road	1.9861	20.9467	16.3840	0.0186		0.9666	0.9666		0.8893	0.8893	0.0000	1,800.5537	1,800.5537	0.5823		1,812.7828
<b>Total</b>	<b>1.9861</b>	<b>20.9467</b>	<b>16.3840</b>	<b>0.0186</b>	<b>0.2224</b>	<b>0.9666</b>	<b>1.1890</b>	<b>0.0337</b>	<b>0.8893</b>	<b>0.9230</b>	<b>0.0000</b>	<b>1,800.5537</b>	<b>1,800.5537</b>	<b>0.5823</b>		<b>1,812.7828</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	0.1220	1.5749	1.4112	5.8800e-003	1.2579	0.0311	1.2890	0.3127	0.0286	0.3414		552.7216	552.7216	4.2200e-003		552.8102
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	0.0233	0.0290	0.3656	1.1300e-003	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0244		81.3470	81.3470	3.7000e-003		81.4248
<b>Total</b>	<b>0.1453</b>	<b>1.6039</b>	<b>1.7768</b>	<b>7.0100e-003</b>	<b>1.3473</b>	<b>0.0318</b>	<b>1.3791</b>	<b>0.3364</b>	<b>0.0293</b>	<b>0.3657</b>		<b>634.0686</b>	<b>634.0686</b>	<b>7.9200e-003</b>		<b>634.2350</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1257	28.2202	22.8304	0.0358		1.7184	1.7184		1.6135	1.6135		3,457.4323	3,457.4323	0.8581		3,475.4529
<b>Total</b>	<b>3.1257</b>	<b>28.2202</b>	<b>22.8304</b>	<b>0.0358</b>		<b>1.7184</b>	<b>1.7184</b>		<b>1.6135</b>	<b>1.6135</b>		<b>3,457.4323</b>	<b>3,457.4323</b>	<b>0.8581</b>		<b>3,475.4529</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	1.8028	17.7526	22.7949	0.0573	1.6568	0.2982	1.9551	0.4719	0.2744	0.7463		5,484.2955	5,484.2955	0.0391		5,485.1168
Worker	2.1055	2.6526	33.2356	0.0958	7.5784	0.0583	7.6367	2.0098	0.0540	2.0639		7,184.9440	7,184.9440	0.3315		7,191.9061
<b>Total</b>	<b>3.9083</b>	<b>20.4052</b>	<b>56.0305</b>	<b>0.1531</b>	<b>9.2353</b>	<b>0.3565</b>	<b>9.5918</b>	<b>2.4818</b>	<b>0.3284</b>	<b>2.8101</b>		<b>12,669.2396</b>	<b>12,669.2396</b>	<b>0.3706</b>		<b>12,677.0229</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	3.1257	28.2202	22.8304	0.0358		1.7184	1.7184		1.6135	1.6135	0.0000	3,457.4323	3,457.4323	0.8581		3,475.4529

<b>Total</b>	<b>3.1257</b>	<b>28.2202</b>	<b>22.8304</b>	<b>0.0358</b>		<b>1.7184</b>	<b>1.7184</b>		<b>1.6135</b>	<b>1.6135</b>	<b>0.0000</b>	<b>3,457.4323</b>	<b>3,457.4323</b>	<b>0.8581</b>		<b>3,475.4529</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.8028	17.7526	22.7949	0.0573	1.6568	0.2982	1.9551	0.4719	0.2744	0.7463		5,484.2955	5,484.2955	0.0391		5,485.1168
Worker	2.1055	2.6526	33.2356	0.0958	7.5784	0.0583	7.6367	2.0098	0.0540	2.0639		7,184.9440	7,184.9440	0.3315		7,191.9061
<b>Total</b>	<b>3.9083</b>	<b>20.4052</b>	<b>56.0305</b>	<b>0.1531</b>	<b>9.2353</b>	<b>0.3565</b>	<b>9.5918</b>	<b>2.4818</b>	<b>0.3284</b>	<b>2.8101</b>		<b>12,669.2396</b>	<b>12,669.2396</b>	<b>0.3706</b>		<b>12,677.0229</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	2.8066	25.6659	22.4025	0.0358		1.4874	1.4874		1.3968	1.3968		3,404.5062	3,404.5062	0.8475		3,422.3040
<b>Total</b>	<b>2.8066</b>	<b>25.6659</b>	<b>22.4025</b>	<b>0.0358</b>		<b>1.4874</b>	<b>1.4874</b>		<b>1.3968</b>	<b>1.3968</b>		<b>3,404.5062</b>	<b>3,404.5062</b>	<b>0.8475</b>		<b>3,422.3040</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	1.7120	15.4987	22.0247	0.0573	1.6570	0.2729	1.9299	0.4720	0.2511	0.7230		5,360.8256	5,360.8256	0.0383		5,361.6295
Worker	1.9737	2.4594	30.9809	0.0957	7.5784	0.0579	7.6364	2.0098	0.0537	2.0636		6,894.1594	6,894.1594	0.3140		6,900.7532
<b>Total</b>	<b>3.6857</b>	<b>17.9581</b>	<b>53.0056</b>	<b>0.1530</b>	<b>9.2354</b>	<b>0.3308</b>	<b>9.5663</b>	<b>2.4818</b>	<b>0.3048</b>	<b>2.7866</b>		<b>12,254.9849</b>	<b>12,254.9849</b>	<b>0.3523</b>		<b>12,262.3827</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	2.8066	25.6659	22.4025	0.0358		1.4874	1.4874		1.3968	1.3968	0.0000	3,404.5062	3,404.5062	0.8475		3,422.3040
<b>Total</b>	<b>2.8066</b>	<b>25.6659</b>	<b>22.4025</b>	<b>0.0358</b>		<b>1.4874</b>	<b>1.4874</b>		<b>1.3968</b>	<b>1.3968</b>	<b>0.0000</b>	<b>3,404.5062</b>	<b>3,404.5062</b>	<b>0.8475</b>		<b>3,422.3040</b>

**Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7120	15.4987	22.0247	0.0573	1.6570	0.2729	1.9299	0.4720	0.2511	0.7230		5,360.8256	5,360.8256	0.0383		5,361.6295
Worker	1.9737	2.4594	30.9809	0.0957	7.5784	0.0579	7.6364	2.0098	0.0537	2.0636		6,894.1594	6,894.1594	0.3140		6,900.7532
<b>Total</b>	<b>3.6857</b>	<b>17.9581</b>	<b>53.0056</b>	<b>0.1530</b>	<b>9.2354</b>	<b>0.3308</b>	<b>9.5663</b>	<b>2.4818</b>	<b>0.3048</b>	<b>2.7866</b>		<b>12,254.9849</b>	<b>12,254.9849</b>	<b>0.3523</b>		<b>12,262.3827</b>

### 3.6 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	1.6626	17.2306	17.9404	0.0279		0.9238	0.9238		0.8499	0.8499		2,700.9464	2,700.9464	0.8735		2,719.2907
Paving	0.6046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2672</b>	<b>17.2306</b>	<b>17.9404</b>	<b>0.0279</b>		<b>0.9238</b>	<b>0.9238</b>		<b>0.8499</b>	<b>0.8499</b>		<b>2,700.9464</b>	<b>2,700.9464</b>	<b>0.8735</b>		<b>2,719.2907</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	0.0437	0.0544	0.6854	2.1200e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		152.5257	152.5257	6.9500e-003		152.6715
<b>Total</b>	<b>0.0437</b>	<b>0.0544</b>	<b>0.6854</b>	<b>2.1200e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>152.5257</b>	<b>152.5257</b>	<b>6.9500e-003</b>		<b>152.6715</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	1.6626	17.2306	17.9404	0.0279		0.9238	0.9238		0.8499	0.8499	0.0000	2,700.9464	2,700.9464	0.8735		2,719.2907
Paving	0.6046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2672</b>	<b>17.2306</b>	<b>17.9404</b>	<b>0.0279</b>		<b>0.9238</b>	<b>0.9238</b>		<b>0.8499</b>	<b>0.8499</b>	<b>0.0000</b>	<b>2,700.9464</b>	<b>2,700.9464</b>	<b>0.8735</b>		<b>2,719.2907</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	0.0437	0.0544	0.6854	2.1200e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		152.5257	152.5257	6.9500e-003		152.6715
<b>Total</b>	<b>0.0437</b>	<b>0.0544</b>	<b>0.6854</b>	<b>2.1200e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>152.5257</b>	<b>152.5257</b>	<b>6.9500e-003</b>		<b>152.6715</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0640	0.1992	0.8180	2.7200e-003	0.1827	3.4900e-003	0.1862	0.0488	3.2200e-003	0.0520		209.8480	209.8480	7.1500e-003		209.9981
Unmitigated	0.0640	0.1992	0.8180	2.7200e-003	0.1827	3.4900e-003	0.1862	0.0488	3.2200e-003	0.0520		209.8480	209.8480	7.1500e-003		209.9981

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.10	20.10	20.10	86,130	86,130
Total	20.10	20.10	20.10	86,130	86,130

#### 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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

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	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
NaturalGas Unmitigated	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223

## 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					
Unrefrigerated Warehouse-No	715.784	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
City Park	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.7200e-003</b>	<b>0.0702</b>	<b>0.0590</b>	<b>4.2000e-004</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>84.2098</b>	<b>84.2098</b>	<b>1.6100e-003</b>	<b>1.5400e-003</b>	<b>84.7223</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	lb/day									lb/day						
Unrefrigerated Warehouse-No	0.715784	7.7200e-003	0.0702	0.0590	4.2000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003		84.2098	84.2098	1.6100e-003	1.5400e-003	84.7223
City Park	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.7200e-003</b>	<b>0.0702</b>	<b>0.0590</b>	<b>4.2000e-004</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>84.2098</b>	<b>84.2098</b>	<b>1.6100e-003</b>	<b>1.5400e-003</b>	<b>84.7223</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	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
Unmitigated	41.4210	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497

## 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	9.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	31.9800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2600e-003	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
<b>Total</b>	<b>41.4210</b>	<b>6.1000e-004</b>	<b>0.0665</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>0.1417</b>	<b>0.1417</b>	<b>3.8000e-004</b>		<b>0.1497</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	9.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.9800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2600e-003	6.1000e-004	0.0665	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1417	0.1417	3.8000e-004		0.1497
<b>Total</b>	<b>41.4210</b>	<b>6.1000e-004</b>	<b>0.0665</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>0.1417</b>	<b>0.1417</b>	<b>3.8000e-004</b>		<b>0.1497</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

## Alamitos Generating Station Battery Energy Storage System South Coast Air Basin, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	287.10	1000sqft	41.42	287,100.00	0
Parking Lot	333.00	Space	3.00	133,200.00	0
City Park	27.43	Acre	27.43	1,194,850.80	0

#### 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>	9			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Non-open space and parking acreage

Construction Phase - Proposed Construction Schedule

Off-road Equipment -

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - demo

Off-road Equipment - Proposed Hours/Day

Off-road Equipment - Proposed Hours/Day

Trips and VMT - Additional trucks. Truck hauling for pavement debris. Additional trips added for import of aggregate.

Demolition - Demo of existing warehouse buildings and pavement.

Vehicle Trips - Trip rate of 5 employees making average of 4 trips per day. Project's Open Space (City Park LU in model) will not generate trips.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	1,110.00	313.00
tblConstructionPhase	NumDays	70.00	7.00
tblConstructionPhase	NumDays	70.00	312.00
tblConstructionPhase	NumDays	75.00	13.00
tblConstructionPhase	NumDays	40.00	21.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/30/2021	2/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	2/2/2019
tblConstructionPhase	PhaseStartDate	2/2/2020	2/3/2020
tblLandUse	LotAcreage	6.59	41.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00

tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	865.00	2,500.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	2.59	0.07
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	2.59	0.07
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	2.59	0.07

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.3962	11.3224	14.9452	0.0306	1.6573	0.4862	2.1435	0.5019	0.4521	0.9540	0.0000	2,424.7659	2,424.7659	0.2543	0.0000	2,430.1068
2020	0.1348	1.0426	1.4551	3.1200e-003	0.1540	0.0450	0.1989	0.0401	0.0418	0.0819	0.0000	240.9810	240.9810	0.0277	0.0000	241.5620
<b>Total</b>	<b>1.5310</b>	<b>12.3650</b>	<b>16.4003</b>	<b>0.0337</b>	<b>1.8113</b>	<b>0.5312</b>	<b>2.3425</b>	<b>0.5420</b>	<b>0.4939</b>	<b>1.0359</b>	<b>0.0000</b>	<b>2,665.7469</b>	<b>2,665.7469</b>	<b>0.2820</b>	<b>0.0000</b>	<b>2,671.6688</b>



**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.3962	11.3224	14.9452	0.0306	1.4507	0.4862	1.9369	0.4111	0.4521	0.8632	0.0000	2,424.7650	2,424.7650	0.2543	0.0000	2,430.1059
2020	0.1348	1.0426	1.4551	3.1200e-003	0.1489	0.0450	0.1938	0.0394	0.0418	0.0811	0.0000	240.9809	240.9809	0.0277	0.0000	241.5619
<b>Total</b>	<b>1.5310</b>	<b>12.3650</b>	<b>16.4002</b>	<b>0.0337</b>	<b>1.5995</b>	<b>0.5312</b>	<b>2.1307</b>	<b>0.4505</b>	<b>0.4939</b>	<b>0.9444</b>	<b>0.0000</b>	<b>2,665.7459</b>	<b>2,665.7459</b>	<b>0.2820</b>	<b>0.0000</b>	<b>2,671.6678</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>11.69</b>	<b>0.00</b>	<b>9.04</b>	<b>16.88</b>	<b>0.00</b>	<b>8.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational  
Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.5590	8.0000e-005	8.3200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170
Energy	1.4100e-003	0.0128	0.0108	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	405.6963	405.6963	0.0183	3.9800e-003	407.3143
Mobile	0.0114	0.0389	0.1460	4.8000e-004	0.0327	6.3000e-004	0.0333	8.7400e-003	5.9000e-004	9.3200e-003	0.0000	33.3505	33.3505	1.1800e-003	0.0000	33.3753
Waste						0.0000	0.0000		0.0000	0.0000	55.2602	0.0000	55.2602	3.2658	0.0000	123.8417
Water						0.0000	0.0000		0.0000	0.0000	21.0631	351.2954	372.3585	2.1795	0.0544	434.9997
<b>Total</b>	<b>7.5718</b>	<b>0.0518</b>	<b>0.1651</b>	<b>5.6000e-004</b>	<b>0.0327</b>	<b>1.6300e-003</b>	<b>0.0343</b>	<b>8.7400e-003</b>	<b>1.5900e-003</b>	<b>0.0103</b>	<b>76.3233</b>	<b>790.3584</b>	<b>866.6817</b>	<b>5.4648</b>	<b>0.0584</b>	<b>999.5481</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	7.5590	8.0000e-005	8.3200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170
Energy	1.4100e-003	0.0128	0.0108	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	405.6963	405.6963	0.0183	3.9800e-003	407.3143
Mobile	0.0114	0.0389	0.1460	4.8000e-004	0.0327	6.3000e-004	0.0333	8.7400e-003	5.9000e-004	9.3200e-003	0.0000	33.3505	33.3505	1.1800e-003	0.0000	33.3753
Waste						0.0000	0.0000		0.0000	0.0000	55.2602	0.0000	55.2602	3.2658	0.0000	123.8417
Water						0.0000	0.0000		0.0000	0.0000	21.0631	351.2954	372.3585	2.1791	0.0543	434.9661
<b>Total</b>	<b>7.5718</b>	<b>0.0518</b>	<b>0.1651</b>	<b>5.6000e-004</b>	<b>0.0327</b>	<b>1.6300e-003</b>	<b>0.0343</b>	<b>8.7400e-003</b>	<b>1.5900e-003</b>	<b>0.0103</b>	<b>76.3233</b>	<b>790.3584</b>	<b>866.6817</b>	<b>5.4644</b>	<b>0.0583</b>	<b>999.5145</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	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	1/1/2019	1/24/2019	6	21	
2	Demolition	Demolition	1/25/2019	2/1/2019	6	7	
3	Demolition Pavement	Demolition	2/2/2019	1/31/2020	6	312	
4	Building Construction	Building Construction	2/2/2019	2/1/2020	6	313	
5	Paving	Paving	2/3/2020	2/17/2020	6	13	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	10.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	10.00	97	0.37
Demolition	Concrete/Industrial Saws	1	10.00	81	0.73
Demolition	Excavators	3	10.00	162	0.38
Demolition	Rubber Tired Dozers	2	10.00	255	0.40
Demolition Pavement	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Pavement	Excavators	0	4.00	162	0.38
Demolition Pavement	Other Construction Equipment	1	1.00	171	0.42
Demolition Pavement	Rubber Tired Dozers	2	8.00	255	0.40
Building Construction	Cranes	1	10.00	226	0.29
Building Construction	Forklifts	3	10.00	89	0.20
Building Construction	Generator Sets	1	10.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	10.00	97	0.37
Building Construction	Welders	1	10.00	46	0.45
Paving	Pavers	2	10.00	125	0.42
Paving	Paving Equipment	2	10.00	130	0.36
Paving	Rollers	2	10.00	80	0.38

**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
Demolition	6	15.00	0.00	52.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	8.4000e-004	8.6700e-003	3.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.7300	1.7300	8.0000e-005	0.0000	1.7317
<b>Total</b>	<b>5.6000e-004</b>	<b>8.4000e-004</b>	<b>8.6700e-003</b>	<b>3.0000e-005</b>	<b>2.0700e-003</b>	<b>2.0000e-005</b>	<b>2.0900e-003</b>	<b>5.5000e-004</b>	<b>2.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.7300</b>	<b>1.7300</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.7317</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					0.0879	0.0000	0.0879	0.0483	0.0000	0.0483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5579	0.4569	5.1000e-004		0.0282	0.0282		0.0260	0.0260	0.0000	46.1593	46.1593	0.0146	0.0000	46.4660
<b>Total</b>	<b>0.0528</b>	<b>0.5579</b>	<b>0.4569</b>	<b>5.1000e-004</b>	<b>0.0879</b>	<b>0.0282</b>	<b>0.1161</b>	<b>0.0483</b>	<b>0.0260</b>	<b>0.0743</b>	<b>0.0000</b>	<b>46.1593</b>	<b>46.1593</b>	<b>0.0146</b>	<b>0.0000</b>	<b>46.4660</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	5.6000e-004	8.4000e-004	8.6700e-003	3.0000e-005	2.0700e-003	2.0000e-005	2.0900e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.7300	1.7300	8.0000e-005	0.0000	1.7317
<b>Total</b>	<b>5.6000e-004</b>	<b>8.4000e-004</b>	<b>8.6700e-003</b>	<b>3.0000e-005</b>	<b>2.0700e-003</b>	<b>2.0000e-005</b>	<b>2.0900e-003</b>	<b>5.5000e-004</b>	<b>2.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.7300</b>	<b>1.7300</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.7317</b>

### 3.3 Demolition - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.6600e-003	0.0000	5.6600e-003	8.6000e-004	0.0000	8.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1485	0.1348	1.7000e-004		7.2000e-003	7.2000e-003		6.7000e-003	6.7000e-003	0.0000	15.5949	15.5949	4.3600e-003	0.0000	15.6863
<b>Total</b>	<b>0.0145</b>	<b>0.1485</b>	<b>0.1348</b>	<b>1.7000e-004</b>	<b>5.6600e-003</b>	<b>7.2000e-003</b>	<b>0.0129</b>	<b>8.6000e-004</b>	<b>6.7000e-003</b>	<b>7.5600e-003</b>	<b>0.0000</b>	<b>15.5949</b>	<b>15.5949</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>15.6863</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	4.2000e-004	6.0400e-003	5.2900e-003	2.0000e-005	4.5000e-004	1.0000e-004	5.5000e-004	1.2000e-004	9.0000e-005	2.2000e-004	0.0000	1.6628	1.6628	1.0000e-005	0.0000	1.6631
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	1.6000e-004	2.3000e-004	2.4100e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.4806	0.4806	2.0000e-005	0.0000	0.4810
<b>Total</b>	<b>5.8000e-004</b>	<b>6.2700e-003</b>	<b>7.7000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>1.0000e-004</b>	<b>1.1300e-003</b>	<b>2.7000e-004</b>	<b>9.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>2.1434</b>	<b>2.1434</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1441</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					2.1000e-003	0.0000	2.1000e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1485	0.1348	1.7000e-004		7.2000e-003	7.2000e-003		6.7000e-003	6.7000e-003	0.0000	15.5948	15.5948	4.3600e-003	0.0000	15.6863
<b>Total</b>	<b>0.0145</b>	<b>0.1485</b>	<b>0.1348</b>	<b>1.7000e-004</b>	<b>2.1000e-003</b>	<b>7.2000e-003</b>	<b>9.3000e-003</b>	<b>3.2000e-004</b>	<b>6.7000e-003</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>15.5948</b>	<b>15.5948</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>15.6863</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	4.2000e-004	6.0400e-003	5.2900e-003	2.0000e-005	4.5000e-004	1.0000e-004	5.5000e-004	1.2000e-004	9.0000e-005	2.2000e-004	0.0000	1.6628	1.6628	1.0000e-005	0.0000	1.6631
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	1.6000e-004	2.3000e-004	2.4100e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.4806	0.4806	2.0000e-005	0.0000	0.4810
<b>Total</b>	<b>5.8000e-004</b>	<b>6.2700e-003</b>	<b>7.7000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>1.0000e-004</b>	<b>1.1300e-003</b>	<b>2.7000e-004</b>	<b>9.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>2.1434</b>	<b>2.1434</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1441</b>

**3.4 Demolition Pavement - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3026	3.2498	2.5053	2.6500e-003		0.1503	0.1503		0.1382	0.1382	0.0000	237.9212	237.9212	0.0753	0.0000	239.5020

<b>Total</b>	<b>0.3026</b>	<b>3.2498</b>	<b>2.5053</b>	<b>2.6500e-003</b>	<b>0.0855</b>	<b>0.1503</b>	<b>0.2358</b>	<b>0.0130</b>	<b>0.1382</b>	<b>0.1512</b>	<b>0.0000</b>	<b>237.9212</b>	<b>237.9212</b>	<b>0.0753</b>	<b>0.0000</b>	<b>239.5020</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0183	0.2652	0.2321	8.4000e-004	0.0210	4.4800e-003	0.0255	5.7100e-003	4.1200e-003	9.8300e-003	0.0000	73.0253	73.0253	5.5000e-004	0.0000	73.0368
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	3.3800e-003	5.0400e-003	0.0523	1.5000e-004	0.0125	1.0000e-004	0.0126	3.3200e-003	9.0000e-005	3.4100e-003	0.0000	10.4347	10.4347	5.1000e-004	0.0000	10.4454
<b>Total</b>	<b>0.0217</b>	<b>0.2702</b>	<b>0.2844</b>	<b>9.9000e-004</b>	<b>0.0335</b>	<b>4.5800e-003</b>	<b>0.0381</b>	<b>9.0300e-003</b>	<b>4.2100e-003</b>	<b>0.0132</b>	<b>0.0000</b>	<b>83.4600</b>	<b>83.4600</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>83.4821</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					0.0317	0.0000	0.0317	4.8000e-003	0.0000	4.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3026	3.2498	2.5053	2.6500e-003		0.1503	0.1503		0.1382	0.1382	0.0000	237.9209	237.9209	0.0753	0.0000	239.5017
<b>Total</b>	<b>0.3026</b>	<b>3.2498</b>	<b>2.5053</b>	<b>2.6500e-003</b>	<b>0.0317</b>	<b>0.1503</b>	<b>0.1820</b>	<b>4.8000e-003</b>	<b>0.1382</b>	<b>0.1430</b>	<b>0.0000</b>	<b>237.9209</b>	<b>237.9209</b>	<b>0.0753</b>	<b>0.0000</b>	<b>239.5017</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	0.0183	0.2652	0.2321	8.4000e-004	0.0210	4.4800e-003	0.0255	5.7100e-003	4.1200e-003	9.8300e-003	0.0000	73.0253	73.0253	5.5000e-004	0.0000	73.0368
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	3.3800e-003	5.0400e-003	0.0523	1.5000e-004	0.0125	1.0000e-004	0.0126	3.3200e-003	9.0000e-005	3.4100e-003	0.0000	10.4347	10.4347	5.1000e-004	0.0000	10.4454
<b>Total</b>	<b>0.0217</b>	<b>0.2702</b>	<b>0.2844</b>	<b>9.9000e-004</b>	<b>0.0335</b>	<b>4.5800e-003</b>	<b>0.0381</b>	<b>9.0300e-003</b>	<b>4.2100e-003</b>	<b>0.0132</b>	<b>0.0000</b>	<b>83.4600</b>	<b>83.4600</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>83.4821</b>

### 3.4 Demolition Pavement - 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					8.1000e-003	0.0000	8.1000e-003	1.2300e-003	0.0000	1.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.2828	0.2212	2.5000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	22.0514	22.0514	7.1300e-003	0.0000	22.2011
<b>Total</b>	<b>0.0268</b>	<b>0.2828</b>	<b>0.2212</b>	<b>2.5000e-004</b>	<b>8.1000e-003</b>	<b>0.0131</b>	<b>0.0212</b>	<b>1.2300e-003</b>	<b>0.0120</b>	<b>0.0132</b>	<b>0.0000</b>	<b>22.0514</b>	<b>22.0514</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2011</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	1.7000e-003	0.0224	0.0217	8.0000e-005	0.0166	4.2000e-004	0.0171	4.1400e-003	3.9000e-004	4.5200e-003	0.0000	6.7624	6.7624	5.0000e-005	0.0000	6.7635
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	3.0000e-004	4.4000e-004	4.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9484	0.9484	5.0000e-005	0.0000	0.9494
<b>Total</b>	<b>2.0000e-003</b>	<b>0.0228</b>	<b>0.0263</b>	<b>9.0000e-005</b>	<b>0.0178</b>	<b>4.3000e-004</b>	<b>0.0182</b>	<b>4.4500e-003</b>	<b>4.0000e-004</b>	<b>4.8400e-003</b>	<b>0.0000</b>	<b>7.7108</b>	<b>7.7108</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>7.7128</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					3.0000e-003	0.0000	3.0000e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.2828	0.2212	2.5000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	22.0513	22.0513	7.1300e-003	0.0000	22.2011
<b>Total</b>	<b>0.0268</b>	<b>0.2828</b>	<b>0.2212</b>	<b>2.5000e-004</b>	<b>3.0000e-003</b>	<b>0.0131</b>	<b>0.0161</b>	<b>4.5000e-004</b>	<b>0.0120</b>	<b>0.0125</b>	<b>0.0000</b>	<b>22.0513</b>	<b>22.0513</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2011</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	1.7000e-003	0.0224	0.0217	8.0000e-005	0.0166	4.2000e-004	0.0171	4.1400e-003	3.9000e-004	4.5200e-003	0.0000	6.7624	6.7624	5.0000e-005	0.0000	6.7635
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	3.0000e-004	4.4000e-004	4.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9484	0.9484	5.0000e-005	0.0000	0.9494
<b>Total</b>	<b>2.0000e-003</b>	<b>0.0228</b>	<b>0.0263</b>	<b>9.0000e-005</b>	<b>0.0178</b>	<b>4.3000e-004</b>	<b>0.0182</b>	<b>4.4500e-003</b>	<b>4.0000e-004</b>	<b>4.8400e-003</b>	<b>0.0000</b>	<b>7.7108</b>	<b>7.7108</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>7.7128</b>

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4454	4.0214	3.2533	5.1100e-003		0.2449	0.2449		0.2299	0.2299	0.0000	446.9555	446.9555	0.1109	0.0000	449.2851
<b>Total</b>	<b>0.4454</b>	<b>4.0214</b>	<b>3.2533</b>	<b>5.1100e-003</b>		<b>0.2449</b>	<b>0.2449</b>		<b>0.2299</b>	<b>0.2299</b>	<b>0.0000</b>	<b>446.9555</b>	<b>446.9555</b>	<b>0.1109</b>	<b>0.0000</b>	<b>449.2851</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	0.2718	2.6403	3.8600	8.1500e-003	0.2324	0.0427	0.2751	0.0664	0.0392	0.1056	0.0000	706.4576	706.4576	5.1300e-003	0.0000	706.5653
Worker	0.2863	0.4273	4.4342	0.0130	1.0600	8.3100e-003	1.0683	0.2815	7.7000e-003	0.2892	0.0000	884.3441	884.3441	0.0429	0.0000	885.2441
<b>Total</b>	<b>0.5581</b>	<b>3.0676</b>	<b>8.2941</b>	<b>0.0211</b>	<b>1.2924</b>	<b>0.0510</b>	<b>1.3434</b>	<b>0.3479</b>	<b>0.0469</b>	<b>0.3948</b>	<b>0.0000</b>	<b>1,590.8017</b>	<b>1,590.8017</b>	<b>0.0480</b>	<b>0.0000</b>	<b>1,591.8093</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	0.4454	4.0214	3.2533	5.1100e-003		0.2449	0.2449		0.2299	0.2299	0.0000	446.9550	446.9550	0.1109	0.0000	449.2846
<b>Total</b>	<b>0.4454</b>	<b>4.0214</b>	<b>3.2533</b>	<b>5.1100e-003</b>		<b>0.2449</b>	<b>0.2449</b>		<b>0.2299</b>	<b>0.2299</b>	<b>0.0000</b>	<b>446.9550</b>	<b>446.9550</b>	<b>0.1109</b>	<b>0.0000</b>	<b>449.2846</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	0.2718	2.6403	3.8600	8.1500e-003	0.2324	0.0427	0.2751	0.0664	0.0392	0.1056	0.0000	706.4576	706.4576	5.1300e-003	0.0000	706.5653
Worker	0.2863	0.4273	4.4342	0.0130	1.0600	8.3100e-003	1.0683	0.2815	7.7000e-003	0.2892	0.0000	884.3441	884.3441	0.0429	0.0000	885.2441
<b>Total</b>	<b>0.5581</b>	<b>3.0676</b>	<b>8.2941</b>	<b>0.0211</b>	<b>1.2924</b>	<b>0.0510</b>	<b>1.3434</b>	<b>0.3479</b>	<b>0.0469</b>	<b>0.3948</b>	<b>0.0000</b>	<b>1,590.8017</b>	<b>1,590.8017</b>	<b>0.0480</b>	<b>0.0000</b>	<b>1,591.8093</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	0.0393	0.3593	0.3136	5.0000e-004		0.0208	0.0208		0.0196	0.0196	0.0000	43.2392	43.2392	0.0108	0.0000	43.4653

<b>Total</b>	<b>0.0393</b>	<b>0.3593</b>	<b>0.3136</b>	<b>5.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0196</b>	<b>0.0196</b>	<b>0.0000</b>	<b>43.2392</b>	<b>43.2392</b>	<b>0.0108</b>	<b>0.0000</b>	<b>43.4653</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0253	0.2263	0.3677	8.0000e-004	0.0228	3.8300e-003	0.0267	6.5200e-003	3.5300e-003	0.0101	0.0000	67.8431	67.8431	4.9000e-004	0.0000	67.8535
Worker	0.0263	0.0389	0.4054	1.2800e-003	0.1041	8.1000e-004	0.1050	0.0277	7.5000e-004	0.0284	0.0000	83.3537	83.3537	3.9900e-003	0.0000	83.4374
<b>Total</b>	<b>0.0517</b>	<b>0.2652</b>	<b>0.7732</b>	<b>2.0800e-003</b>	<b>0.1270</b>	<b>4.6400e-003</b>	<b>0.1316</b>	<b>0.0342</b>	<b>4.2800e-003</b>	<b>0.0385</b>	<b>0.0000</b>	<b>151.1968</b>	<b>151.1968</b>	<b>4.4800e-003</b>	<b>0.0000</b>	<b>151.2909</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	0.0393	0.3593	0.3136	5.0000e-004		0.0208	0.0208		0.0196	0.0196	0.0000	43.2392	43.2392	0.0108	0.0000	43.4652
<b>Total</b>	<b>0.0393</b>	<b>0.3593</b>	<b>0.3136</b>	<b>5.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0196</b>	<b>0.0196</b>	<b>0.0000</b>	<b>43.2392</b>	<b>43.2392</b>	<b>0.0108</b>	<b>0.0000</b>	<b>43.4652</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	0.0253	0.2263	0.3677	8.0000e-004	0.0228	3.8300e-003	0.0267	6.5200e-003	3.5300e-003	0.0101	0.0000	67.8431	67.8431	4.9000e-004	0.0000	67.8535
Worker	0.0263	0.0389	0.4054	1.2800e-003	0.1041	8.1000e-004	0.1050	0.0277	7.5000e-004	0.0284	0.0000	83.3537	83.3537	3.9900e-003	0.0000	83.4374
<b>Total</b>	<b>0.0517</b>	<b>0.2652</b>	<b>0.7732</b>	<b>2.0800e-003</b>	<b>0.1270</b>	<b>4.6400e-003</b>	<b>0.1316</b>	<b>0.0342</b>	<b>4.2800e-003</b>	<b>0.0385</b>	<b>0.0000</b>	<b>151.1968</b>	<b>151.1968</b>	<b>4.4800e-003</b>	<b>0.0000</b>	<b>151.2909</b>

### 3.6 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	0.0108	0.1120	0.1166	1.8000e-004		6.0000e-003	6.0000e-003		5.5200e-003	5.5200e-003	0.0000	15.9267	15.9267	5.1500e-003	0.0000	16.0348
Paving	3.9300e-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>0.0147</b>	<b>0.1120</b>	<b>0.1166</b>	<b>1.8000e-004</b>		<b>6.0000e-003</b>	<b>6.0000e-003</b>		<b>5.5200e-003</b>	<b>5.5200e-003</b>	<b>0.0000</b>	<b>15.9267</b>	<b>15.9267</b>	<b>5.1500e-003</b>	<b>0.0000</b>	<b>16.0348</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	2.7000e-004	4.0000e-004	4.1600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8562	0.8562	4.0000e-005	0.0000	0.8571
<b>Total</b>	<b>2.7000e-004</b>	<b>4.0000e-004</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8562</b>	<b>0.8562</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.8571</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	0.0108	0.1120	0.1166	1.8000e-004		6.0000e-003	6.0000e-003		5.5200e-003	5.5200e-003	0.0000	15.9267	15.9267	5.1500e-003	0.0000	16.0348
Paving	3.9300e-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>0.0147</b>	<b>0.1120</b>	<b>0.1166</b>	<b>1.8000e-004</b>		<b>6.0000e-003</b>	<b>6.0000e-003</b>		<b>5.5200e-003</b>	<b>5.5200e-003</b>	<b>0.0000</b>	<b>15.9267</b>	<b>15.9267</b>	<b>5.1500e-003</b>	<b>0.0000</b>	<b>16.0348</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	2.7000e-004	4.0000e-004	4.1600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8562	0.8562	4.0000e-005	0.0000	0.8571
<b>Total</b>	<b>2.7000e-004</b>	<b>4.0000e-004</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8562</b>	<b>0.8562</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.8571</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	0.0114	0.0389	0.1460	4.8000e-004	0.0327	6.3000e-004	0.0333	8.7400e-003	5.9000e-004	9.3200e-003	0.0000	33.3505	33.3505	1.1800e-003	0.0000	33.3753
Unmitigated	0.0114	0.0389	0.1460	4.8000e-004	0.0327	6.3000e-004	0.0333	8.7400e-003	5.9000e-004	9.3200e-003	0.0000	33.3505	33.3505	1.1800e-003	0.0000	33.3753

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.10	20.10	20.10	86,130	86,130
Total	20.10	20.10	20.10	86,130	86,130

### 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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140





<b>Total</b>		1.4100e-003	0.0128	0.0108	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.9419	13.9419	2.7000e-004	2.6000e-004	14.0267
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**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					
Unrefrigerated Warehouse-No	261261	1.4100e-003	0.0128	0.0108	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.9419	13.9419	2.7000e-004	2.6000e-004	14.0267
City Park	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		1.4100e-003	0.0128	0.0108	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.9419	13.9419	2.7000e-004	2.6000e-004	14.0267

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	117216	33.5433	1.5400e-003	3.2000e-004	33.6746
Unrefrigerated Warehouse-No	1.25176e+006	358.2111	0.0165	3.4100e-003	359.6130
<b>Total</b>		391.7545	0.0180	3.7300e-003	393.2876

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	117216	33.5433	1.5400e-003	3.2000e-004	33.6746
Unrefrigerated Warehouse-No	1.25176e+006	358.2111	0.0165	3.4100e-003	359.6130
<b>Total</b>		<b>391.7545</b>	<b>0.0180</b>	<b>3.7300e-003</b>	<b>393.2876</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	7.5590	8.0000e-005	8.3200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170
Unmitigated	7.5590	8.0000e-005	8.3200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170

### 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
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SubCategory	tons/yr								MT/yr						
Architectural Coating	1.7218				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8364				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8000e-004	8.0000e-005	8.3200e-003	0.0000	3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170
<b>Total</b>	<b>7.5590</b>	<b>8.0000e-005</b>	<b>8.3200e-003</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0170</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	1.7218					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.8364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8000e-004	8.0000e-005	8.3200e-003	0.0000	3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0170	
<b>Total</b>	<b>7.5590</b>	<b>8.0000e-005</b>	<b>8.3200e-003</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0161</b>	<b>0.0161</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0170</b>	

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	372.3585	2.1791	0.0543	434.9661

Unmitigated	372.3585	2.1795	0.0544	434.9997
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## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 32.6823	103.9074	4.7800e-003	9.9000e-004	104.3141
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	66.3919 / 0	268.4511	2.1748	0.0534	330.6857
<b>Total</b>		<b>372.3585</b>	<b>2.1795</b>	<b>0.0544</b>	<b>434.9997</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 32.6823	103.9074	4.7800e-003	9.9000e-004	104.3141
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	66.3919 / 0	268.4511	2.1744	0.0534	330.6521
<b>Total</b>		<b>372.3585</b>	<b>2.1791</b>	<b>0.0543</b>	<b>434.9661</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.2602	3.2658	0.0000	123.8417
Unmitigated	55.2602	3.2658	0.0000	123.8417

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.36	0.4791	0.0283	0.0000	1.0736
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	269.87	54.7812	3.2375	0.0000	122.7681
<b>Total</b>		<b>55.2602</b>	<b>3.2658</b>	<b>0.0000</b>	<b>123.8417</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.36	0.4791	0.0283	0.0000	1.0736
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	269.87	54.7812	3.2375	0.0000	122.7681
<b>Total</b>		<b>55.2602</b>	<b>3.2658</b>	<b>0.0000</b>	<b>123.8417</b>

## 9.0 Operational Offroad

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

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