

**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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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> |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|

**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 |
|-------|--------|---------|---------|--------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--|------------|

**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  |
| Total    | 4.0991 | 21.0825 | 58.2759 | 0.1466 | 9.2353        | 0.3592       | 9.5945     | 2.4818         | 0.3309        | 2.8126      |          | 12,173.6201 | 12,173.6201 | 0.3719 |     | 12,181.4308 |

**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 |
| Total    | 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 |

**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 |
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| 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       | 0.0559        | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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> |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|

**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 |

|       |        |         |         |        |  |        |        |  |        |        |        |            |            |        |  |            |
|-------|--------|---------|---------|--------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--|------------|
| 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 |
|-------|--------|---------|---------|--------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--|------------|

**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 |
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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         |
| 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**

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

| Category      | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
|               | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Fugitive Dust |         |        |        |             | 0.0855        | 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> |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|

**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> |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|

**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        |
| <b>Total</b>                     | <b>20.10</b>            | <b>20.10</b> | <b>20.10</b> | <b>86,130</b> | <b>86,130</b> |

### 4.3 Trip Type Information

| Land Use                    | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|-----------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                             | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| 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 |
|--------------|--|-------------|--------|--------|-------------|--|-------------|-------------|--|-------------|-------------|--------|---------|---------|-------------|-------------|---------|

**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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| 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        |               |
| Consumer Products     | 5.8364        |                    |                    |               |  | 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 |
|-------------|----------|--------|--------|----------|

## 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

---

### 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

---

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Vegetation

---