

200 Park Avenue Office Project - Santa Clara County, Annual

**200 Park Avenue Office Project**  
**Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                      | Size     | Metric   | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|----------|----------|-------------|--------------------|------------|
| General Office Building        | 840.00   | 1000sqft | 1.70        | 840,000.00         | 2856       |
| Enclosed Parking with Elevator | 1,755.00 | Space    | 0.00        | 300,000.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |       |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 58    |
| <b>Climate Zone</b>             | 4                              |                                 |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 290                            | <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 - CO2 intensity factor is based on PGE's current intensity factor.

Land Use - Lot acreage = project site acreage

Service population based on 3.4 employees per 1,000 sq. ft. (employees occupy 840,000 sq. ft. of office space)

Construction Phase - Construction assumed to start December 2019. Duration of construction is estimated to be 35 months.

Vehicle Trips - weekday trip generation rate based on daily trips generated by project = 5,356

5,356 daily trips = 840,000 sq. ft. office building x 6.4 weekday trip rate

Energy Use -

Mobile Land Use Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|------------|-------------|---------------|-----------|
|------------|-------------|---------------|-----------|

|                                 |                    |            |            |
|---------------------------------|--------------------|------------|------------|
| tblConstructionPhase            | NumDays            | 200.00     | 718.00     |
| tblConstructionPhase            | PhaseEndDate       | 11/23/2020 | 11/17/2020 |
| tblConstructionPhase            | PhaseEndDate       | 10/26/2020 | 10/20/2022 |
| tblConstructionPhase            | PhaseEndDate       | 11/9/2020  | 11/3/2022  |
| tblConstructionPhase            | PhaseStartDate     | 11/10/2020 | 11/4/2020  |
| tblConstructionPhase            | PhaseStartDate     | 10/27/2020 | 10/21/2022 |
| tblLandUse                      | LandUseSquareFeet  | 702,000.00 | 300,000.00 |
| tblLandUse                      | LotAcreage         | 19.28      | 1.70       |
| tblLandUse                      | LotAcreage         | 15.79      | 0.00       |
| tblLandUse                      | Population         | 0.00       | 2,856.00   |
| tblProjectCharacteristics       | CO2IntensityFactor | 641.35     | 290        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue    | 0.00       | 160.00     |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment  | 0.00       | 1.00       |
| tblVehicleTrips                 | WD_TR              | 11.03      | 6.38       |

## 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           | 0.0141        | 0.1363        | 0.0916        | 1.5000e-004   | 6.2000e-004   | 7.7200e-003   | 8.3400e-003   | 1.6000e-004    | 7.2100e-003   | 7.3800e-003   | 0.0000        | 13.3973           | 13.3973           | 3.2900e-003   | 0.0000        | 13.4795           |
| 2020           | 4.9646        | 4.7328        | 3.6645        | 0.0129        | 0.5604        | 0.1217        | 0.6820        | 0.1564         | 0.1171        | 0.2735        | 0.0000        | 1,181.3808        | 1,181.3808        | 0.0814        | 0.0000        | 1,183.4157        |
| 2021           | 0.4749        | 4.3972        | 3.5301        | 0.0132        | 0.5694        | 0.0974        | 0.6668        | 0.1552         | 0.0939        | 0.2491        | 0.0000        | 1,207.4729        | 1,207.4729        | 0.0775        | 0.0000        | 1,209.4114        |
| 2022           | 0.3541        | 3.3178        | 2.7466        | 0.0105        | 0.4565        | 0.0692        | 0.5256        | 0.1244         | 0.0666        | 0.1910        | 0.0000        | 958.5438          | 958.5438          | 0.0615        | 0.0000        | 960.0816          |
| <b>Maximum</b> | <b>4.9646</b> | <b>4.7328</b> | <b>3.6645</b> | <b>0.0132</b> | <b>0.5694</b> | <b>0.1217</b> | <b>0.6820</b> | <b>0.1564</b>  | <b>0.1171</b> | <b>0.2735</b> | <b>0.0000</b> | <b>1,207.4729</b> | <b>1,207.4729</b> | <b>0.0814</b> | <b>0.0000</b> | <b>1,209.4114</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           | 0.0141        | 0.1363        | 0.0915        | 1.5000e-004   | 6.2000e-004   | 7.7200e-003   | 8.3400e-003   | 1.6000e-004    | 7.2100e-003   | 7.3800e-003   | 0.0000        | 13.3973           | 13.3973           | 3.2900e-003   | 0.0000        | 13.4794           |
| 2020           | 4.9646        | 4.7328        | 3.6645        | 0.0129        | 0.5604        | 0.1217        | 0.6820        | 0.1564         | 0.1171        | 0.2735        | 0.0000        | 1,181.3805        | 1,181.3805        | 0.0814        | 0.0000        | 1,183.4154        |
| 2021           | 0.4749        | 4.3972        | 3.5301        | 0.0132        | 0.5694        | 0.0974        | 0.6668        | 0.1552         | 0.0939        | 0.2491        | 0.0000        | 1,207.4726        | 1,207.4726        | 0.0775        | 0.0000        | 1,209.4111        |
| 2022           | 0.3541        | 3.3178        | 2.7466        | 0.0105        | 0.4565        | 0.0692        | 0.5256        | 0.1244         | 0.0666        | 0.1910        | 0.0000        | 958.5435          | 958.5435          | 0.0615        | 0.0000        | 960.0813          |
| <b>Maximum</b> | <b>4.9646</b> | <b>4.7328</b> | <b>3.6645</b> | <b>0.0132</b> | <b>0.5694</b> | <b>0.1217</b> | <b>0.6820</b> | <b>0.1564</b>  | <b>0.1171</b> | <b>0.2735</b> | <b>0.0000</b> | <b>1,207.4726</b> | <b>1,207.4726</b> | <b>0.0814</b> | <b>0.0000</b> | <b>1,209.4111</b> |

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

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1       | 12-16-2019 | 3-15-2020  | 1.1020                                       | 1.1020                                     |
| 2       | 3-16-2020  | 6-15-2020  | 1.3434                                       | 1.3434                                     |
| 3       | 6-16-2020  | 9-15-2020  | 1.3403                                       | 1.3403                                     |
| 4       | 9-16-2020  | 12-15-2020 | 5.7955                                       | 5.7955                                     |
| 5       | 12-16-2020 | 3-15-2021  | 1.2283                                       | 1.2283                                     |
| 6       | 3-16-2021  | 6-15-2021  | 1.2210                                       | 1.2210                                     |
| 7       | 6-16-2021  | 9-15-2021  | 1.2184                                       | 1.2184                                     |
| 8       | 9-16-2021  | 12-15-2021 | 1.2175                                       | 1.2175                                     |
| 9       | 12-16-2021 | 3-15-2022  | 1.1384                                       | 1.1384                                     |
| 10      | 3-16-2022  | 6-15-2022  | 1.1376                                       | 1.1376                                     |
| 11      | 6-16-2022  | 9-15-2022  | 1.1353                                       | 1.1353                                     |

|    |           |           |        |        |
|----|-----------|-----------|--------|--------|
| 12 | 9-16-2022 | 9-30-2022 | 0.1851 | 0.1851 |
|    |           | Highest   | 5.7955 | 5.7955 |

## 2.2 Overall Operational Unmitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4            | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr           |                   |                   |                |               |                   |
| Area         | 3.7465        | 2.2000e-004   | 0.0239         | 0.0000        |               | 9.0000e-005   | 9.0000e-005   |                | 9.0000e-005   | 9.0000e-005   | 0.0000          | 0.0464            | 0.0464            | 1.2000e-004    | 0.0000        | 0.0494            |
| Energy       | 0.0742        | 0.6741        | 0.5662         | 4.0400e-003   |               | 0.0512        | 0.0512        |                | 0.0512        | 0.0512        | 0.0000          | 2,935.1732        | 2,935.1732        | 0.2342         | 0.0590        | 2,958.6098        |
| Mobile       | 0.9965        | 4.2518        | 11.7363        | 0.0408        | 3.7740        | 0.0346        | 3.8086        | 1.0102         | 0.0323        | 1.0426        | 0.0000          | 3,738.6096        | 3,738.6096        | 0.1255         | 0.0000        | 3,741.7465        |
| Stationary   | 0.0000        | 0.0000        | 0.0000         | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000            | 0.0000            | 0.0000         | 0.0000        | 0.0000            |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 158.5765        | 0.0000            | 158.5765          | 9.3716         | 0.0000        | 392.8667          |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 47.3648         | 148.3933          | 195.7581          | 4.8797         | 0.1179        | 352.8956          |
| <b>Total</b> | <b>4.8172</b> | <b>4.9260</b> | <b>12.3264</b> | <b>0.0449</b> | <b>3.7740</b> | <b>0.0859</b> | <b>3.8599</b> | <b>1.0102</b>  | <b>0.0836</b> | <b>1.0939</b> | <b>205.9414</b> | <b>6,822.2224</b> | <b>7,028.1637</b> | <b>14.6111</b> | <b>0.1769</b> | <b>7,446.1680</b> |

## Mitigated Operational

|          | ROG     | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|----------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Category | tons/yr |             |        |             |               |              |             |                |               |             | MT/yr    |            |            |             |        |            |
| Area     | 3.7465  | 2.2000e-004 | 0.0239 | 0.0000      |               | 9.0000e-005  | 9.0000e-005 |                | 9.0000e-005   | 9.0000e-005 | 0.0000   | 0.0464     | 0.0464     | 1.2000e-004 | 0.0000 | 0.0494     |
| Energy   | 0.0742  | 0.6741      | 0.5662 | 4.0400e-003 |               | 0.0512       | 0.0512      |                | 0.0512        | 0.0512      | 0.0000   | 2,935.1732 | 2,935.1732 | 0.2342      | 0.0590 | 2,958.6098 |

|              |               |               |               |               |               |               |               |               |               |               |                 |                   |                   |                |               |                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Mobile       | 0.7999        | 2.9204        | 6.7542        | 0.0190        | 1.6146        | 0.0173        | 1.6319        | 0.4322        | 0.0162        | 0.4484        | 0.0000          | 1,745.0355        | 1,745.0355        | 0.0727         | 0.0000        | 1,746.8540        |
| Stationary   | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 0.0000          | 0.0000            | 0.0000            | 0.0000         | 0.0000        | 0.0000            |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 158.5765        | 0.0000            | 158.5765          | 9.3716         | 0.0000        | 392.8667          |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 47.3648         | 148.3933          | 195.7581          | 4.8797         | 0.1179        | 352.8956          |
| <b>Total</b> | <b>4.6205</b> | <b>3.5947</b> | <b>7.3443</b> | <b>0.0231</b> | <b>1.6146</b> | <b>0.0687</b> | <b>1.6832</b> | <b>0.4322</b> | <b>0.0675</b> | <b>0.4997</b> | <b>205.9414</b> | <b>4,828.6483</b> | <b>5,034.5896</b> | <b>14.5583</b> | <b>0.1769</b> | <b>5,451.2754</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 | 4.08 | 27.03 | 40.42 | 48.56 | 57.22         | 20.11        | 56.39      | 57.22          | 19.32         | 54.32       | 0.00     | 29.22    | 28.37     | 0.36 | 0.00 | 26.79 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 12/16/2019 | 1/10/2020  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/11/2020  | 1/14/2020  | 5             | 2        |                   |
| 3            | Grading               | Grading               | 1/15/2020  | 1/20/2020  | 5             | 4        |                   |
| 4            | Building Construction | Building Construction | 1/21/2020  | 10/20/2022 | 5             | 718      |                   |
| 5            | Paving                | Paving                | 10/21/2022 | 11/3/2022  | 5             | 10       |                   |
| 6            | Architectural Coating | Architectural Coating | 11/4/2020  | 11/17/2020 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,260,000; Non-Residential Outdoor: 420,000; Striped Parking

#### OffRoad Equipment

| Phase Name | Offroad Equipment Type   | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1      | 8.00        | 81          | 0.73        |

|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Demolition            | Rubber Tired Dozers       | 1 | 8.00 | 247 | 0.40 |
| Demolition            | Tractors/Loaders/Backhoes | 3 | 8.00 | 97  | 0.37 |
| Site Preparation      | Graders                   | 1 | 8.00 | 187 | 0.41 |
| Site Preparation      | Rubber Tired Dozers       | 1 | 7.00 | 247 | 0.40 |
| Site Preparation      | Tractors/Loaders/Backhoes | 1 | 8.00 | 97  | 0.37 |
| Grading               | Graders                   | 1 | 6.00 | 187 | 0.41 |
| Grading               | Rubber Tired Dozers       | 1 | 6.00 | 247 | 0.40 |
| Grading               | Tractors/Loaders/Backhoes | 1 | 7.00 | 97  | 0.37 |
| Building Construction | Cranes                    | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts                 | 1 | 6.00 | 89  | 0.20 |
| Building Construction | Generator Sets            | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97  | 0.37 |
| Building Construction | Welders                   | 3 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers  | 1 | 6.00 | 9   | 0.56 |
| Paving                | Pavers                    | 1 | 6.00 | 130 | 0.42 |
| Paving                | Paving Equipment          | 1 | 8.00 | 132 | 0.36 |
| Paving                | Rollers                   | 1 | 7.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | 1 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78  | 0.48 |

### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 5                       | 13.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 7                       | 395.00             | 187.00             | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 5                       | 13.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 79.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

### 3.2 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         |                |                |                    |               |                |
| Off-Road     | 0.0138        | 0.1361        | 0.0894        | 1.4000e-004        |               | 7.7200e-003        | 7.7200e-003        |                | 7.2100e-003        | 7.2100e-003        | 0.0000        | 12.8497        | 12.8497        | 3.2700e-003        | 0.0000        | 12.9315        |
| <b>Total</b> | <b>0.0138</b> | <b>0.1361</b> | <b>0.0894</b> | <b>1.4000e-004</b> |               | <b>7.7200e-003</b> | <b>7.7200e-003</b> |                | <b>7.2100e-003</b> | <b>7.2100e-003</b> | <b>0.0000</b> | <b>12.8497</b> | <b>12.8497</b> | <b>3.2700e-003</b> | <b>0.0000</b> | <b>12.9315</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       | 2.8000e-004        | 2.1000e-004        | 2.1800e-003        | 1.0000e-005        | 6.2000e-004        | 0.0000        | 6.2000e-004        | 1.6000e-004        | 0.0000        | 1.7000e-004        | 0.0000        | 0.5476        | 0.5476        | 1.0000e-005        | 0.0000        | 0.5480        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>2.1000e-004</b> | <b>2.1800e-003</b> | <b>1.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>6.2000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>0.5476</b> | <b>0.5476</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.5480</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     | 0.0138        | 0.1361        | 0.0894        | 1.4000e-004        |               | 7.7200e-003        | 7.7200e-003        |                | 7.2100e-003        | 7.2100e-003        | 0.0000        | 12.8496        | 12.8496        | 3.2700e-003        | 0.0000        | 12.9314        |
| <b>Total</b> | <b>0.0138</b> | <b>0.1361</b> | <b>0.0894</b> | <b>1.4000e-004</b> |               | <b>7.7200e-003</b> | <b>7.7200e-003</b> |                | <b>7.2100e-003</b> | <b>7.2100e-003</b> | <b>0.0000</b> | <b>12.8496</b> | <b>12.8496</b> | <b>3.2700e-003</b> | <b>0.0000</b> | <b>12.9314</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       | 2.8000e-004        | 2.1000e-004        | 2.1800e-003        | 1.0000e-005        | 6.2000e-004        | 0.0000        | 6.2000e-004        | 1.6000e-004        | 0.0000        | 1.7000e-004        | 0.0000        | 0.5476        | 0.5476        | 1.0000e-005        | 0.0000        | 0.5480        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>2.1000e-004</b> | <b>2.1800e-003</b> | <b>1.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>6.2000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>0.5476</b> | <b>0.5476</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.5480</b> |

### **3.2 Demolition - 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 | 8.5000e-003 | 0.0838 | 0.0586 | 1.0000e-004 |               | 4.6100e-003  | 4.6100e-003 |                | 4.3000e-003   | 4.3000e-003 | 0.0000   | 8.4271    | 8.4271    | 2.1700e-003 | 0.0000 | 8.4812 |



|              |                    |               |               |                    |  |                    |                    |  |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|---------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| <b>Total</b> | <b>8.5000e-003</b> | <b>0.0838</b> | <b>0.0586</b> | <b>1.0000e-004</b> |  | <b>4.6100e-003</b> | <b>4.6100e-003</b> |  | <b>4.3000e-003</b> | <b>4.3000e-003</b> | <b>0.0000</b> | <b>8.4271</b> | <b>8.4271</b> | <b>2.1700e-003</b> | <b>0.0000</b> | <b>8.4812</b> |
|--------------|--------------------|---------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.7000e-004        | 1.2000e-004        | 1.3000e-003        | 0.0000        | 4.1000e-004        | 0.0000        | 4.2000e-004        | 1.1000e-004        | 0.0000        | 1.1000e-004        | 0.0000        | 0.3537        | 0.3537        | 1.0000e-005        | 0.0000        | 0.3539        |
| <b>Total</b> | <b>1.7000e-004</b> | <b>1.2000e-004</b> | <b>1.3000e-003</b> | <b>0.0000</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>4.2000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.3537</b> | <b>0.3537</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3539</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     | 8.5000e-003        | 0.0838        | 0.0586        | 1.0000e-004        |               | 4.6100e-003        | 4.6100e-003        |                | 4.3000e-003        | 4.3000e-003        | 0.0000        | 8.4271        | 8.4271        | 2.1700e-003        | 0.0000        | 8.4812        |
| <b>Total</b> | <b>8.5000e-003</b> | <b>0.0838</b> | <b>0.0586</b> | <b>1.0000e-004</b> |               | <b>4.6100e-003</b> | <b>4.6100e-003</b> |                | <b>4.3000e-003</b> | <b>4.3000e-003</b> | <b>0.0000</b> | <b>8.4271</b> | <b>8.4271</b> | <b>2.1700e-003</b> | <b>0.0000</b> | <b>8.4812</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.7000e-004        | 1.2000e-004        | 1.3000e-003        | 0.0000        | 4.1000e-004        | 0.0000        | 4.2000e-004        | 1.1000e-004        | 0.0000        | 1.1000e-004        | 0.0000        | 0.3537        | 0.3537        | 1.0000e-005        | 0.0000        | 0.3539        |
| <b>Total</b> | <b>1.7000e-004</b> | <b>1.2000e-004</b> | <b>1.3000e-003</b> | <b>0.0000</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>4.2000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.3537</b> | <b>0.3537</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3539</b> |

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |                    |                    | 5.8000e-003        | 0.0000             | 5.8000e-003        | 2.9500e-003        | 0.0000             | 2.9500e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.6300e-003        | 0.0184        | 7.7100e-003        | 2.0000e-005        |                    | 8.2000e-004        | 8.2000e-004        |                    | 7.6000e-004        | 7.6000e-004        | 0.0000        | 1.5127        | 1.5127        | 4.9000e-004        | 0.0000        | 1.5249        |
| <b>Total</b>  | <b>1.6300e-003</b> | <b>0.0184</b> | <b>7.7100e-003</b> | <b>2.0000e-005</b> | <b>5.8000e-003</b> | <b>8.2000e-004</b> | <b>6.6200e-003</b> | <b>2.9500e-003</b> | <b>7.6000e-004</b> | <b>3.7100e-003</b> | <b>0.0000</b> | <b>1.5127</b> | <b>1.5127</b> | <b>4.9000e-004</b> | <b>0.0000</b> | <b>1.5249</b> |

#### Unmitigated Construction Off-Site

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

|              |                    |                    |                    |               |                    |               |                    |                    |               |                    |               |               |               |               |               |               |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 3.0000e-005        | 2.0000e-005        | 2.0000e-004        | 0.0000        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0544        | 0.0544        | 0.0000        | 0.0000        | 0.0545        |
| <b>Total</b> | <b>3.0000e-005</b> | <b>2.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0544</b> | <b>0.0544</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0545</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 |                    |               |                    |                    | 5.8000e-003        | 0.0000             | 5.8000e-003        | 2.9500e-003        | 0.0000             | 2.9500e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.6300e-003        | 0.0184        | 7.7100e-003        | 2.0000e-005        |                    | 8.2000e-004        | 8.2000e-004        |                    | 7.6000e-004        | 7.6000e-004        | 0.0000        | 1.5127        | 1.5127        | 4.9000e-004        | 0.0000        | 1.5249        |
| <b>Total</b>  | <b>1.6300e-003</b> | <b>0.0184</b> | <b>7.7100e-003</b> | <b>2.0000e-005</b> | <b>5.8000e-003</b> | <b>8.2000e-004</b> | <b>6.6200e-003</b> | <b>2.9500e-003</b> | <b>7.6000e-004</b> | <b>3.7100e-003</b> | <b>0.0000</b> | <b>1.5127</b> | <b>1.5127</b> | <b>4.9000e-004</b> | <b>0.0000</b> | <b>1.5249</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 3.0000e-005        | 2.0000e-005        | 2.0000e-004        | 0.0000        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0544        | 0.0544        | 0.0000        | 0.0000        | 0.0545        |
| <b>Total</b> | <b>3.0000e-005</b> | <b>2.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0544</b> | <b>0.0544</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0545</b> |

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 9.8300e-003        | 0.0000             | 9.8300e-003   | 5.0500e-003        | 0.0000             | 5.0500e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7000e-003        | 0.0302        | 0.0129        | 3.0000e-005        |                    | 1.3700e-003        | 1.3700e-003   |                    | 1.2600e-003        | 1.2600e-003        | 0.0000        | 2.4779        | 2.4779        | 8.0000e-004        | 0.0000        | 2.4980        |
| <b>Total</b>  | <b>2.7000e-003</b> | <b>0.0302</b> | <b>0.0129</b> | <b>3.0000e-005</b> | <b>9.8300e-003</b> | <b>1.3700e-003</b> | <b>0.0112</b> | <b>5.0500e-003</b> | <b>1.2600e-003</b> | <b>6.3100e-003</b> | <b>0.0000</b> | <b>2.4779</b> | <b>2.4779</b> | <b>8.0000e-004</b> | <b>0.0000</b> | <b>2.4980</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       | 5.0000e-005        | 4.0000e-005        | 4.0000e-004        | 0.0000        | 1.3000e-004        | 0.0000        | 1.3000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.1088        | 0.1088        | 0.0000        | 0.0000        | 0.1089        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>4.0000e-005</b> | <b>4.0000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1088</b> | <b>0.1088</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1089</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 |                    |               |               |                    | 9.8300e-003        | 0.0000             | 9.8300e-003   | 5.0500e-003        | 0.0000             | 5.0500e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7000e-003        | 0.0302        | 0.0129        | 3.0000e-005        |                    | 1.3700e-003        | 1.3700e-003   |                    | 1.2600e-003        | 1.2600e-003        | 0.0000        | 2.4779        | 2.4779        | 8.0000e-004        | 0.0000        | 2.4980        |
| <b>Total</b>  | <b>2.7000e-003</b> | <b>0.0302</b> | <b>0.0129</b> | <b>3.0000e-005</b> | <b>9.8300e-003</b> | <b>1.3700e-003</b> | <b>0.0112</b> | <b>5.0500e-003</b> | <b>1.2600e-003</b> | <b>6.3100e-003</b> | <b>0.0000</b> | <b>2.4779</b> | <b>2.4779</b> | <b>8.0000e-004</b> | <b>0.0000</b> | <b>2.4980</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       | 5.0000e-005        | 4.0000e-005        | 4.0000e-004        | 0.0000        | 1.3000e-004        | 0.0000        | 1.3000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.1088        | 0.1088        | 0.0000        | 0.0000        | 0.1089        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>4.0000e-005</b> | <b>4.0000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1088</b> | <b>0.1088</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1089</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 | 0.2518  | 1.8337 | 1.6353 | 2.7300e-003 |               | 0.0987       | 0.0987     |                | 0.0953        | 0.0953      | 0.0000   | 225.1123  | 225.1123  | 0.0418 | 0.0000 | 226.1570 |

|              |               |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |               |                 |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| <b>Total</b> | <b>0.2518</b> | <b>1.8337</b> | <b>1.6353</b> | <b>2.7300e-003</b> |  | <b>0.0987</b> | <b>0.0987</b> |  | <b>0.0953</b> | <b>0.0953</b> | <b>0.0000</b> | <b>225.1123</b> | <b>225.1123</b> | <b>0.0418</b> | <b>0.0000</b> | <b>226.1570</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       | 0.0919        | 2.6403        | 0.7032        | 6.3200e-003   | 0.1525        | 0.0131        | 0.1656        | 0.0441         | 0.0125        | 0.0566        | 0.0000        | 606.2335        | 606.2335        | 0.0278        | 0.0000        | 606.9286        |
| Worker       | 0.1627        | 0.1169        | 1.2258        | 3.6900e-003   | 0.3885        | 2.5100e-003   | 0.3910        | 0.1033         | 2.3100e-003   | 0.1056        | 0.0000        | 333.1372        | 333.1372        | 8.1700e-003   | 0.0000        | 333.3415        |
| <b>Total</b> | <b>0.2546</b> | <b>2.7572</b> | <b>1.9290</b> | <b>0.0100</b> | <b>0.5410</b> | <b>0.0156</b> | <b>0.5566</b> | <b>0.1474</b>  | <b>0.0148</b> | <b>0.1622</b> | <b>0.0000</b> | <b>939.3707</b> | <b>939.3707</b> | <b>0.0360</b> | <b>0.0000</b> | <b>940.2701</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     | 0.2518        | 1.8337        | 1.6353        | 2.7300e-003        |               | 0.0987        | 0.0987        |                | 0.0953        | 0.0953        | 0.0000        | 225.1120        | 225.1120        | 0.0418        | 0.0000        | 226.1567        |
| <b>Total</b> | <b>0.2518</b> | <b>1.8337</b> | <b>1.6353</b> | <b>2.7300e-003</b> |               | <b>0.0987</b> | <b>0.0987</b> |                | <b>0.0953</b> | <b>0.0953</b> | <b>0.0000</b> | <b>225.1120</b> | <b>225.1120</b> | <b>0.0418</b> | <b>0.0000</b> | <b>226.1567</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       | 0.0919        | 2.6403        | 0.7032        | 6.3200e-003   | 0.1525        | 0.0131        | 0.1656        | 0.0441         | 0.0125        | 0.0566        | 0.0000        | 606.2335        | 606.2335        | 0.0278        | 0.0000        | 606.9286        |
| Worker       | 0.1627        | 0.1169        | 1.2258        | 3.6900e-003   | 0.3885        | 2.5100e-003   | 0.3910        | 0.1033         | 2.3100e-003   | 0.1056        | 0.0000        | 333.1372        | 333.1372        | 8.1700e-003   | 0.0000        | 333.3415        |
| <b>Total</b> | <b>0.2546</b> | <b>2.7572</b> | <b>1.9290</b> | <b>0.0100</b> | <b>0.5410</b> | <b>0.0156</b> | <b>0.5566</b> | <b>0.1474</b>  | <b>0.0148</b> | <b>0.1622</b> | <b>0.0000</b> | <b>939.3707</b> | <b>939.3707</b> | <b>0.0360</b> | <b>0.0000</b> | <b>940.2701</b> |

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2365        | 1.7795        | 1.6834        | 2.8800e-003        |               | 0.0893        | 0.0893        |                | 0.0862        | 0.0862        | 0.0000        | 236.9197        | 236.9197        | 0.0423        | 0.0000        | 237.9771        |
| <b>Total</b> | <b>0.2365</b> | <b>1.7795</b> | <b>1.6834</b> | <b>2.8800e-003</b> |               | <b>0.0893</b> | <b>0.0893</b> |                | <b>0.0862</b> | <b>0.0862</b> | <b>0.0000</b> | <b>236.9197</b> | <b>236.9197</b> | <b>0.0423</b> | <b>0.0000</b> | <b>237.9771</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       | 0.0796        | 2.5077        | 0.6675        | 6.5900e-003   | 0.1606        | 5.5600e-003        | 0.1661        | 0.0464        | 5.3200e-003        | 0.0517        | 0.0000        | 632.1224        | 632.1224        | 0.0276        | 0.0000        | 632.8111        |
| Worker       | 0.1588        | 0.1100        | 1.1792        | 3.7400e-003   | 0.4088        | 2.5700e-003        | 0.4114        | 0.1087        | 2.3700e-003        | 0.1111        | 0.0000        | 338.4309        | 338.4309        | 7.7000e-003   | 0.0000        | 338.6233        |
| <b>Total</b> | <b>0.2384</b> | <b>2.6176</b> | <b>1.8467</b> | <b>0.0103</b> | <b>0.5694</b> | <b>8.1300e-003</b> | <b>0.5775</b> | <b>0.1552</b> | <b>7.6900e-003</b> | <b>0.1628</b> | <b>0.0000</b> | <b>970.5533</b> | <b>970.5533</b> | <b>0.0353</b> | <b>0.0000</b> | <b>971.4344</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     | 0.2365        | 1.7795        | 1.6834        | 2.8800e-003        |               | 0.0893        | 0.0893        |                | 0.0862        | 0.0862        | 0.0000        | 236.9194        | 236.9194        | 0.0423        | 0.0000        | 237.9768        |
| <b>Total</b> | <b>0.2365</b> | <b>1.7795</b> | <b>1.6834</b> | <b>2.8800e-003</b> |               | <b>0.0893</b> | <b>0.0893</b> |                | <b>0.0862</b> | <b>0.0862</b> | <b>0.0000</b> | <b>236.9194</b> | <b>236.9194</b> | <b>0.0423</b> | <b>0.0000</b> | <b>237.9768</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       | 0.0796        | 2.5077        | 0.6675        | 6.5900e-003   | 0.1606        | 5.5600e-003        | 0.1661        | 0.0464         | 5.3200e-003        | 0.0517        | 0.0000        | 632.1224        | 632.1224        | 0.0276        | 0.0000        | 632.8111        |
| Worker       | 0.1588        | 0.1100        | 1.1792        | 3.7400e-003   | 0.4088        | 2.5700e-003        | 0.4114        | 0.1087         | 2.3700e-003        | 0.1111        | 0.0000        | 338.4309        | 338.4309        | 7.7000e-003   | 0.0000        | 338.6233        |
| <b>Total</b> | <b>0.2384</b> | <b>2.6176</b> | <b>1.8467</b> | <b>0.0103</b> | <b>0.5694</b> | <b>8.1300e-003</b> | <b>0.5775</b> | <b>0.1552</b>  | <b>7.6900e-003</b> | <b>0.1628</b> | <b>0.0000</b> | <b>970.5533</b> | <b>970.5533</b> | <b>0.0353</b> | <b>0.0000</b> | <b>971.4344</b> |



### 3.5 Building Construction - 2022

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1723        | 1.3066        | 1.3299        | 2.3000e-003        |               | 0.0615        | 0.0615        |                | 0.0594        | 0.0594        | 0.0000        | 189.7479        | 189.7479        | 0.0331        | 0.0000        | 190.5741        |
| <b>Total</b> | <b>0.1723</b> | <b>1.3066</b> | <b>1.3299</b> | <b>2.3000e-003</b> |               | <b>0.0615</b> | <b>0.0615</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>189.7479</b> | <b>189.7479</b> | <b>0.0331</b> | <b>0.0000</b> | <b>190.5741</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       | 0.0595        | 1.8982        | 0.5035        | 5.2200e-003        | 0.1286        | 3.8700e-003        | 0.1324        | 0.0372         | 3.7000e-003        | 0.0409        | 0.0000        | 501.3397        | 501.3397        | 0.0211        | 0.0000        | 501.8662        |
| Worker       | 0.1187        | 0.0790        | 0.8679        | 2.8900e-003        | 0.3274        | 2.0100e-003        | 0.3294        | 0.0871         | 1.8500e-003        | 0.0889        | 0.0000        | 261.1602        | 261.1602        | 5.5300e-003   | 0.0000        | 261.2984        |
| <b>Total</b> | <b>0.1781</b> | <b>1.9772</b> | <b>1.3713</b> | <b>8.1100e-003</b> | <b>0.4560</b> | <b>5.8800e-003</b> | <b>0.4618</b> | <b>0.1242</b>  | <b>5.5500e-003</b> | <b>0.1298</b> | <b>0.0000</b> | <b>762.4998</b> | <b>762.4998</b> | <b>0.0266</b> | <b>0.0000</b> | <b>763.1646</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     | 0.1723        | 1.3066        | 1.3299        | 2.3000e-003        |               | 0.0615        | 0.0615        |                | 0.0594        | 0.0594        | 0.0000        | 189.7477        | 189.7477        | 0.0331        | 0.0000        | 190.5739        |
| <b>Total</b> | <b>0.1723</b> | <b>1.3066</b> | <b>1.3299</b> | <b>2.3000e-003</b> |               | <b>0.0615</b> | <b>0.0615</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>189.7477</b> | <b>189.7477</b> | <b>0.0331</b> | <b>0.0000</b> | <b>190.5739</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       | 0.0595        | 1.8982        | 0.5035        | 5.2200e-003        | 0.1286        | 3.8700e-003        | 0.1324        | 0.0372         | 3.7000e-003        | 0.0409        | 0.0000        | 501.3397        | 501.3397        | 0.0211        | 0.0000        | 501.8662        |
| Worker       | 0.1187        | 0.0790        | 0.8679        | 2.8900e-003        | 0.3274        | 2.0100e-003        | 0.3294        | 0.0871         | 1.8500e-003        | 0.0889        | 0.0000        | 261.1602        | 261.1602        | 5.5300e-003   | 0.0000        | 261.2984        |
| <b>Total</b> | <b>0.1781</b> | <b>1.9772</b> | <b>1.3713</b> | <b>8.1100e-003</b> | <b>0.4560</b> | <b>5.8800e-003</b> | <b>0.4618</b> | <b>0.1242</b>  | <b>5.5500e-003</b> | <b>0.1298</b> | <b>0.0000</b> | <b>762.4998</b> | <b>762.4998</b> | <b>0.0266</b> | <b>0.0000</b> | <b>763.1646</b> |

### **3.6 Paving - 2022**

#### Unmitigated Construction On-Site

|          | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|----------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr     |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Off-Road | 3.4400e-003 | 0.0339 | 0.0440 | 7.0000e-005 |               | 1.7400e-003  | 1.7400e-003 |                | 1.6000e-003   | 1.6000e-003 | 0.0000   | 5.8848    | 5.8848    | 1.8700e-003 | 0.0000 | 5.9315 |

|              |                    |               |               |                    |  |                    |                    |  |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|---------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Paving       | 0.0000             |               |               |                    |  | 0.0000             | 0.0000             |  | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>3.4400e-003</b> | <b>0.0339</b> | <b>0.0440</b> | <b>7.0000e-005</b> |  | <b>1.7400e-003</b> | <b>1.7400e-003</b> |  | <b>1.6000e-003</b> | <b>1.6000e-003</b> | <b>0.0000</b> | <b>5.8848</b> | <b>5.8848</b> | <b>1.8700e-003</b> | <b>0.0000</b> | <b>5.9315</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.9000e-004        | 1.2000e-004        | 1.3700e-003        | 0.0000        | 5.2000e-004        | 0.0000        | 5.2000e-004        | 1.4000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4113        | 0.4113        | 1.0000e-005        | 0.0000        | 0.4115        |
| <b>Total</b> | <b>1.9000e-004</b> | <b>1.2000e-004</b> | <b>1.3700e-003</b> | <b>0.0000</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>5.2000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4113</b> | <b>0.4113</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4115</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     | 3.4400e-003        | 0.0339        | 0.0440        | 7.0000e-005        |               | 1.7400e-003        | 1.7400e-003        |                | 1.6000e-003        | 1.6000e-003        | 0.0000        | 5.8848        | 5.8848        | 1.8700e-003        | 0.0000        | 5.9314        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>3.4400e-003</b> | <b>0.0339</b> | <b>0.0440</b> | <b>7.0000e-005</b> |               | <b>1.7400e-003</b> | <b>1.7400e-003</b> |                | <b>1.6000e-003</b> | <b>1.6000e-003</b> | <b>0.0000</b> | <b>5.8848</b> | <b>5.8848</b> | <b>1.8700e-003</b> | <b>0.0000</b> | <b>5.9314</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.9000e-004        | 1.2000e-004        | 1.3700e-003        | 0.0000        | 5.2000e-004        | 0.0000        | 5.2000e-004        | 1.4000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4113        | 0.4113        | 1.0000e-005        | 0.0000        | 0.4115        |
| <b>Total</b> | <b>1.9000e-004</b> | <b>1.2000e-004</b> | <b>1.3700e-003</b> | <b>0.0000</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>5.2000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4113</b> | <b>0.4113</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4115</b> |

### 3.7 Architectural Coating - 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         |               |               |                    |               |               |
| Archit. Coating | 4.4427        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.2100e-003   | 8.4200e-003        | 9.1600e-003        | 1.0000e-005        |               | 5.5000e-004        | 5.5000e-004        |                | 5.5000e-004        | 5.5000e-004        | 0.0000        | 1.2766        | 1.2766        | 1.0000e-004        | 0.0000        | 1.2791        |
| <b>Total</b>    | <b>4.4439</b> | <b>8.4200e-003</b> | <b>9.1600e-003</b> | <b>1.0000e-005</b> |               | <b>5.5000e-004</b> | <b>5.5000e-004</b> |                | <b>5.5000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>1.2766</b> | <b>1.2766</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.2791</b> |

#### Unmitigated Construction Off-Site

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

|              |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.3100e-003        | 9.4000e-004        | 9.8900e-003        | 3.0000e-005        | 3.1300e-003        | 2.0000e-005        | 3.1500e-003        | 8.3000e-004        | 2.0000e-005        | 8.5000e-004        | 0.0000        | 2.6866        | 2.6866        | 7.0000e-005        | 0.0000        | 2.6882        |
| <b>Total</b> | <b>1.3100e-003</b> | <b>9.4000e-004</b> | <b>9.8900e-003</b> | <b>3.0000e-005</b> | <b>3.1300e-003</b> | <b>2.0000e-005</b> | <b>3.1500e-003</b> | <b>8.3000e-004</b> | <b>2.0000e-005</b> | <b>8.5000e-004</b> | <b>0.0000</b> | <b>2.6866</b> | <b>2.6866</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.6882</b> |

**Mitigated Construction On-Site**

|                 | ROG           | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 4.4427        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.2100e-003   | 8.4200e-003        | 9.1600e-003        | 1.0000e-005        |               | 5.5000e-004        | 5.5000e-004        |                | 5.5000e-004        | 5.5000e-004        | 0.0000        | 1.2766        | 1.2766        | 1.0000e-004        | 0.0000        | 1.2791        |
| <b>Total</b>    | <b>4.4439</b> | <b>8.4200e-003</b> | <b>9.1600e-003</b> | <b>1.0000e-005</b> |               | <b>5.5000e-004</b> | <b>5.5000e-004</b> |                | <b>5.5000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>1.2766</b> | <b>1.2766</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.2791</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.3100e-003        | 9.4000e-004        | 9.8900e-003        | 3.0000e-005        | 3.1300e-003        | 2.0000e-005        | 3.1500e-003        | 8.3000e-004        | 2.0000e-005        | 8.5000e-004        | 0.0000        | 2.6866        | 2.6866        | 7.0000e-005        | 0.0000        | 2.6882        |
| <b>Total</b> | <b>1.3100e-003</b> | <b>9.4000e-004</b> | <b>9.8900e-003</b> | <b>3.0000e-005</b> | <b>3.1300e-003</b> | <b>2.0000e-005</b> | <b>3.1500e-003</b> | <b>8.3000e-004</b> | <b>2.0000e-005</b> | <b>8.5000e-004</b> | <b>0.0000</b> | <b>2.6866</b> | <b>2.6866</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.6882</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

|             | ROG     | NOx    | CO      | SO2    | Fugitive 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   | 0.7999  | 2.9204 | 6.7542  | 0.0190 | 1.6146        | 0.0173       | 1.6319     | 0.4322         | 0.0162        | 0.4484      | 0.0000   | 1,745.0355 | 1,745.0355 | 0.0727 | 0.0000 | 1,746.8540 |
| Unmitigated | 0.9965  | 4.2518 | 11.7363 | 0.0408 | 3.7740        | 0.0346       | 3.8086     | 1.0102         | 0.0323        | 1.0426      | 0.0000   | 3,738.6096 | 3,738.6096 | 0.1255 | 0.0000 | 3,741.7465 |

### 4.2 Trip Summary Information

| Land Use                       | Average Daily Trip Rate |                 |               | Unmitigated       | Mitigated        |
|--------------------------------|-------------------------|-----------------|---------------|-------------------|------------------|
|                                | Weekday                 | Saturday        | Sunday        | Annual VMT        | Annual VMT       |
| Enclosed Parking with Elevator | 0.00                    | 0.00            | 0.00          |                   |                  |
| General Office Building        | 5,356.01                | 2,066.40        | 882.00        | 10,149,089        | 4,341,881        |
| <b>Total</b>                   | <b>5,356.01</b>         | <b>2,066.40</b> | <b>882.00</b> | <b>10,149,089</b> | <b>4,341,881</b> |

### 4.3 Trip Type Information

| Land Use                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Enclosed Parking with Elevator | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

|                         |      |      |      |       |       |       |    |    |   |
|-------------------------|------|------|------|-------|-------|-------|----|----|---|
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
|-------------------------|------|------|------|-------|-------|-------|----|----|---|

#### 4.4 Fleet Mix

| Land Use                       | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.610498 | 0.036775 | 0.183084 | 0.106123 | 0.014413 | 0.005007 | 0.012610 | 0.021118 | 0.002144 | 0.001548 | 0.005312 | 0.000627 | 0.000740 |
| General Office Building        | 0.610498 | 0.036775 | 0.183084 | 0.106123 | 0.014413 | 0.005007 | 0.012610 | 0.021118 | 0.002144 | 0.001548 | 0.005312 | 0.000627 | 0.000740 |

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,201.3781 | 2,201.3781 | 0.2201 | 0.0456 | 2,220.4542 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,201.3781 | 2,201.3781 | 0.2201 | 0.0456 | 2,220.4542 |
| NaturalGas Mitigated    | 0.0742  | 0.6741 | 0.5662 | 4.0400e-003 |               | 0.0512       | 0.0512     |                | 0.0512        | 0.0512      | 0.0000   | 733.7951   | 733.7951   | 0.0141 | 0.0135 | 738.1556   |
| NaturalGas Unmitigated  | 0.0742  | 0.6741 | 0.5662 | 4.0400e-003 |               | 0.0512       | 0.0512     |                | 0.0512        | 0.0512      | 0.0000   | 733.7951   | 733.7951   | 0.0141 | 0.0135 | 738.1556   |

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

| NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| Land Use                       | kBTU/yr      | tons/yr       |               |               |                    |  |               |               |  |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------------------------|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Enclosed Parking with Elevator | 0            | 0.0000        | 0.0000        | 0.0000        | 0.0000             |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| General Office Building        | 1.37508e+007 | 0.0742        | 0.6741        | 0.5662        | 4.0400e-003        |  | 0.0512        | 0.0512        |  | 0.0512        | 0.0512        | 0.0000        | 733.7951        | 733.7951        | 0.0141        | 0.0135        | 738.1556        |
| <b>Total</b>                   |              | <b>0.0742</b> | <b>0.6741</b> | <b>0.5662</b> | <b>4.0400e-003</b> |  | <b>0.0512</b> | <b>0.0512</b> |  | <b>0.0512</b> | <b>0.0512</b> | <b>0.0000</b> | <b>733.7951</b> | <b>733.7951</b> | <b>0.0141</b> | <b>0.0135</b> | <b>738.1556</b> |

**Mitigated**

|                                | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                       | kBTU/yr         | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Enclosed Parking with Elevator | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| General Office Building        | 1.37508e+007    | 0.0742        | 0.6741        | 0.5662        | 4.0400e-003        |               | 0.0512        | 0.0512        |                | 0.0512        | 0.0512        | 0.0000        | 733.7951        | 733.7951        | 0.0141        | 0.0135        | 738.1556        |
| <b>Total</b>                   |                 | <b>0.0742</b> | <b>0.6741</b> | <b>0.5662</b> | <b>4.0400e-003</b> |               | <b>0.0512</b> | <b>0.0512</b> |                | <b>0.0512</b> | <b>0.0512</b> | <b>0.0000</b> | <b>733.7951</b> | <b>733.7951</b> | <b>0.0141</b> | <b>0.0135</b> | <b>738.1556</b> |

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                                | Electricity Use | Total CO2         | CH4           | N2O           | CO2e              |
|--------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use                       | kWh/yr          | MT/yr             |               |               |                   |
| Enclosed Parking with Elevator | 1.758e+006      | 231.2505          | 0.0231        | 4.7800e-003   | 233.2544          |
| General Office Building        | 1.49772e+007    | 1,970.1277        | 0.1970        | 0.0408        | 1,987.1998        |
| <b>Total</b>                   |                 | <b>2,201.3781</b> | <b>0.2201</b> | <b>0.0455</b> | <b>2,220.4542</b> |



**Mitigated**

|                                | Electricity Use | Total CO2         | CH4           | N2O           | CO2e              |
|--------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use                       | kWh/yr          | MT/yr             |               |               |                   |
| Enclosed Parking with Elevator | 1.758e+006      | 231.2505          | 0.0231        | 4.7800e-003   | 233.2544          |
| General Office Building        | 1.49772e+007    | 1,970.1277        | 0.1970        | 0.0408        | 1,987.1998        |
| <b>Total</b>                   |                 | <b>2,201.3781</b> | <b>0.2201</b> | <b>0.0455</b> | <b>2,220.4542</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   | 3.7465  | 2.2000e-004 | 0.0239 | 0.0000 |               | 9.0000e-005  | 9.0000e-005 |                | 9.0000e-005   | 9.0000e-005 | 0.0000   | 0.0464    | 0.0464    | 1.2000e-004 | 0.0000 | 0.0494 |
| Unmitigated | 3.7465  | 2.2000e-004 | 0.0239 | 0.0000 |               | 9.0000e-005  | 9.0000e-005 |                | 9.0000e-005   | 9.0000e-005 | 0.0000   | 0.0464    | 0.0464    | 1.2000e-004 | 0.0000 | 0.0494 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |               |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.4443        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 3.3000        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 2.2200e-003   | 2.2000e-004        | 0.0239        | 0.0000        |               | 9.0000e-005        | 9.0000e-005        |                | 9.0000e-005        | 9.0000e-005        | 0.0000        | 0.0464        | 0.0464        | 1.2000e-004        | 0.0000        | 0.0494        |
| <b>Total</b>          | <b>3.7465</b> | <b>2.2000e-004</b> | <b>0.0239</b> | <b>0.0000</b> |               | <b>9.0000e-005</b> | <b>9.0000e-005</b> |                | <b>9.0000e-005</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>0.0464</b> | <b>0.0464</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.0494</b> |

### Mitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |               |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.4443        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 3.3000        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 2.2200e-003   | 2.2000e-004        | 0.0239        | 0.0000        |               | 9.0000e-005        | 9.0000e-005        |                | 9.0000e-005        | 9.0000e-005        | 0.0000        | 0.0464        | 0.0464        | 1.2000e-004        | 0.0000        | 0.0494        |
| <b>Total</b>          | <b>3.7465</b> | <b>2.2000e-004</b> | <b>0.0239</b> | <b>0.0000</b> |               | <b>9.0000e-005</b> | <b>9.0000e-005</b> |                | <b>9.0000e-005</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>0.0464</b> | <b>0.0464</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.0494</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 195.7581  | 4.8797 | 0.1179 | 352.8956 |
| Unmitigated | 195.7581  | 4.8797 | 0.1179 | 352.8956 |

## 7.2 Water by Land Use

### Unmitigated

|                                | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|--------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use                       | Mgal               | MT/yr           |               |               |                 |
| Enclosed Parking with Elevator | 0 / 0              | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| General Office Building        | 149.296 / 91.5042  | 195.7581        | 4.8797        | 0.1179        | 352.8956        |
| <b>Total</b>                   |                    | <b>195.7581</b> | <b>4.8797</b> | <b>0.1179</b> | <b>352.8956</b> |

### Mitigated

|          | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------|--------------------|-----------|-----|-----|------|
| Land Use | Mgal               | MT/yr     |     |     |      |

|                                |                   |                 |               |               |                 |
|--------------------------------|-------------------|-----------------|---------------|---------------|-----------------|
| Enclosed Parking with Elevator | 0 / 0             | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| General Office Building        | 149.296 / 91.5042 | 195.7581        | 4.8797        | 0.1179        | 352.8956        |
| <b>Total</b>                   |                   | <b>195.7581</b> | <b>4.8797</b> | <b>0.1179</b> | <b>352.8956</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
|             | MT/yr     |        |        |          |
| Mitigated   | 158.5765  | 9.3716 | 0.0000 | 392.8667 |
| Unmitigated | 158.5765  | 9.3716 | 0.0000 | 392.8667 |

### 8.2 Waste by Land Use

#### Unmitigated

|                                | Waste Disposed | Total CO2 | CH4    | N2O    | CO2e     |
|--------------------------------|----------------|-----------|--------|--------|----------|
| Land Use                       | tons           | MT/yr     |        |        |          |
| Enclosed Parking with Elevator | 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| General Office Building        | 781.2          | 158.5765  | 9.3716 | 0.0000 | 392.8667 |

|       |  |          |        |        |          |
|-------|--|----------|--------|--------|----------|
| Total |  | 158.5765 | 9.3716 | 0.0000 | 392.8667 |
|-------|--|----------|--------|--------|----------|

**Mitigated**

| Land Use                       | Waste Disposed<br>tons | Total CO2<br>MT/yr | CH4<br>MT/yr  | N2O<br>MT/yr  | CO2e<br>MT/yr   |
|--------------------------------|------------------------|--------------------|---------------|---------------|-----------------|
| Enclosed Parking with Elevator | 0                      | 0.0000             | 0.0000        | 0.0000        | 0.0000          |
| General Office Building        | 781.2                  | 158.5765           | 9.3716        | 0.0000        | 392.8667        |
| <b>Total</b>                   |                        | <b>158.5765</b>    | <b>9.3716</b> | <b>0.0000</b> | <b>392.8667</b> |

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

| Equipment Type      | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---------------------|--------|-----------|------------|-------------|-------------|-----------|
| Emergency Generator | 1      | 0         | 0          | 160         | 0.73        | Diesel    |

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**10.1 Stationary Sources**

**Unmitigated/Mitigated**

|   | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Equipment Type                            | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Emergency Generator - Diesel (100-175 HP) | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                              | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**11.0 Vegetation**

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