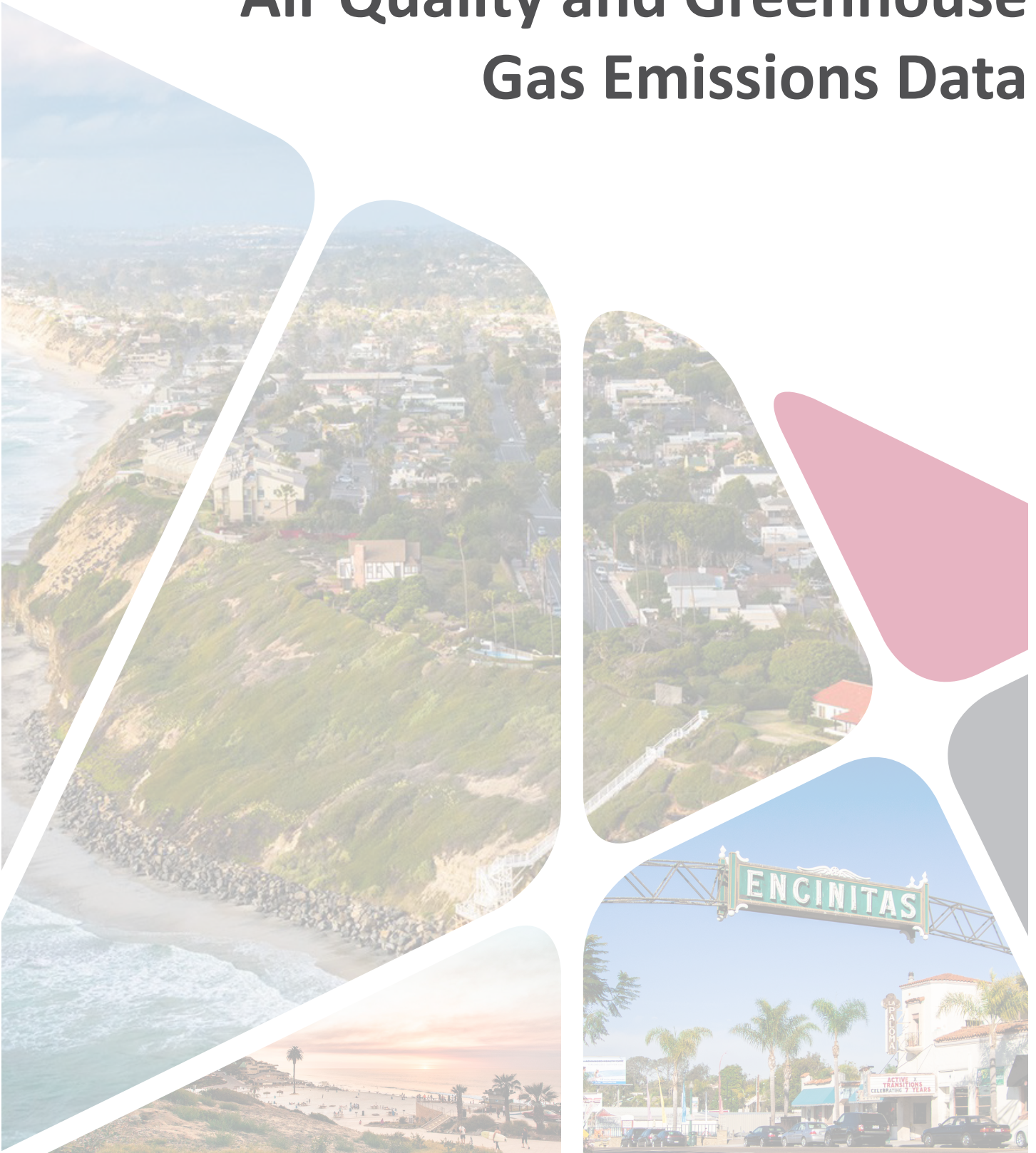


Appendix D

# Air Quality and Greenhouse Gas Emissions Data



## Encinitas HE - #2 - San Diego County, Annual

## Encinitas HE - #2

### San Diego County, Annual

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 208.00 | Dwelling Unit | 6.90        | 208,000.00         | 595        |
| Parking Lot         | 572.00 | Space         | 5.15        | 228,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       |                                     |       | <b>Operational Year</b>             | 2020  |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 2 = approx 6.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 2 = 6.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 13.00         | 6.90       |

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    | 3.8447  | 4.3554 | 3.6188 | 8.0600e-003 | 0.4684        | 0.2060       | 0.6745     | 0.1703         | 0.1930        | 0.3633      | 0.0000   | 728.7410  | 728.7410  | 0.1193 | 0.0000 | 731.7223 |
| Maximum | 3.8447  | 4.3554 | 3.6188 | 8.0600e-003 | 0.4684        | 0.2060       | 0.6745     | 0.1703         | 0.1930        | 0.3633      | 0.0000   | 728.7410  | 728.7410  | 0.1193 | 0.0000 | 731.7223 |

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    | 3.8447  | 4.3554 | 3.6188 | 8.0600e-003 | 0.3297        | 0.2060       | 0.5357     | 0.1079         | 0.1930        | 0.3009      | 0.0000   | 728.7405  | 728.7405  | 0.1193 | 0.0000 | 731.7219 |
| Maximum | 3.8447  | 4.3554 | 3.6188 | 8.0600e-003 | 0.3297        | 0.2060       | 0.5357     | 0.1079         | 0.1930        | 0.3009      | 0.0000   | 728.7405  | 728.7405  | 0.1193 | 0.0000 | 731.7219 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 29.62         | 0.00         | 20.57      | 36.63          | 0.00          | 17.17       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019 | 1.5729                                       | 1.5729                                     |
| 2       | 4-1-2019   | 6-30-2019 | 1.2100                                       | 1.2100                                     |
| 3       | 7-1-2019   | 9-30-2019 | 2.6999                                       | 2.6999                                     |
|         |            | Highest   | 2.6999                                       | 2.6999                                     |

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     | 14.2594 | 0.2729 | 17.6652 | 0.0293      |               | 2.2674       | 2.2674      |                | 2.2674        | 2.2674      | 214.8552 | 92.6402   | 307.4954  | 0.2008 | 0.0169      | 317.5506 |
| Energy   | 0.0126  | 0.1076 | 0.0458  | 6.9000e-004 |               | 8.7000e-003  | 8.7000e-003 |                | 8.7000e-003   | 8.7000e-003 | 0.0000   | 439.2598  | 439.2598  | 0.0151 | 4.9000e-003 | 441.0978 |

|              |                |               |                |               |               |               |               |               |               |               |                 |                   |                   |               |               |                   |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Mobile       | 0.4527         | 2.0311        | 5.4485         | 0.0177        | 1.4767        | 0.0179        | 1.4945        | 0.3955        | 0.0168        | 0.4122        | 0.0000          | 1,633.6680        | 1,633.6680        | 0.0889        | 0.0000        | 1,635.8895        |
| Waste        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 19.4222         | 0.0000            | 19.4222           | 1.1478        | 0.0000        | 48.1176           |
| Water        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 4.2994          | 88.6898           | 92.9892           | 0.4452        | 0.0112        | 107.4456          |
| <b>Total</b> | <b>14.7246</b> | <b>2.4115</b> | <b>23.1594</b> | <b>0.0477</b> | <b>1.4767</b> | <b>2.2939</b> | <b>3.7706</b> | <b>0.3955</b> | <b>2.2928</b> | <b>2.6883</b> | <b>238.5768</b> | <b>2,254.2578</b> | <b>2,492.8346</b> | <b>1.8977</b> | <b>0.0330</b> | <b>2,550.1011</b> |

Mitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.2231        | 0.1453        | 1.6090        | 8.9000e-004   |               | 0.0188        | 0.0188        |                | 0.0188        | 0.0188        | 0.0000         | 149.9811          | 149.9811          | 5.3100e-003   | 2.7000e-003   | 150.9195          |
| Energy       | 0.0126        | 0.1076        | 0.0458        | 6.9000e-004   |               | 8.7000e-003   | 8.7000e-003   |                | 8.7000e-003   | 8.7000e-003   | 0.0000         | 439.2598          | 439.2598          | 0.0151        | 4.9000e-003   | 441.0978          |
| Mobile       | 0.4527        | 2.0311        | 5.4485        | 0.0177        | 1.4767        | 0.0179        | 1.4945        | 0.3955         | 0.0168        | 0.4122        | 0.0000         | 1,633.6680        | 1,633.6680        | 0.0889        | 0.0000        | 1,635.8895        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 9.7111         | 0.0000            | 9.7111            | 0.5739        | 0.0000        | 24.0588           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 3.4396         | 75.2637           | 78.7033           | 0.3563        | 8.9700e-003   | 90.2834           |
| <b>Total</b> | <b>1.6883</b> | <b>2.2840</b> | <b>7.1033</b> | <b>0.0193</b> | <b>1.4767</b> | <b>0.0454</b> | <b>1.5221</b> | <b>0.3955</b>  | <b>0.0443</b> | <b>0.4398</b> | <b>13.1506</b> | <b>2,298.1727</b> | <b>2,311.3233</b> | <b>1.0394</b> | <b>0.0166</b> | <b>2,342.2489</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 | 88.53 | 5.29 | 69.33 | 59.50 | 0.00          | 98.02        | 59.63      | 0.00           | 98.07         | 83.64       | 94.49    | -1.95    | 7.28      | 45.23 | 49.74 | 8.15 |

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            | 1/1/2019  | 1/28/2019  | 5 | 20  |
| 2 | Site Preparation      | Site Preparation      | 1/29/2019 | 2/11/2019  | 5 | 10  |
| 3 | Grading               | Grading               | 2/12/2019 | 3/25/2019  | 5 | 30  |
| 4 | Building Construction | Building Construction | 4/23/2019 | 12/31/2019 | 5 | 181 |
| 5 | Paving                | Paving                | 3/26/2019 | 4/22/2019  | 5 | 20  |
| 6 | Architectural Coating | Architectural Coating | 6/16/2019 | 12/31/2019 | 5 | 142 |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.15**

**Residential Indoor: 421,200; Residential Outdoor: 140,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

#### OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |

|                       |                 |   |      |     |      |
|-----------------------|-----------------|---|------|-----|------|
| Paving                | Rollers         | 2 | 8.00 | 80  | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78  | 0.48 |
| Grading               | Scrapers        | 2 | 8.00 | 367 | 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            | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 246.00             | 60.00              | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 49.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

## Replace Ground Cover

### Water Exposed Area

## Water Unpaved Roads

## Reduce Vehicle Speed on Unpaved Roads

## Clean Paved Roads

### 3.2 Demolition - 2019

### Unmitigated Construction On-Site

[illegible]

|              |               |               |               |                    |               |               |               |               |               |               |               |                |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Off-Road     | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |               | 0.0180        | 0.0180        |               | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8672        |
| <b>Total</b> | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>0.0180</b> | <b>0.0180</b> | <b>0.0000</b> | <b>0.0167</b> | <b>0.0167</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8672</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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.2000e-003        | 1.0000e-005        | 1.2100e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.2000e-003</b> | <b>1.0000e-005</b> | <b>1.2100e-003</b> | <b>3.2000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |               | 0.0180        | 0.0180        |                | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8671        |
| <b>Total</b>  | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>0.0180</b> | <b>0.0180</b> | <b>0.0000</b>  | <b>0.0167</b> | <b>0.0167</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8671</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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.1400e-003   | 1.0000e-005  | 1.1500e-003 | 3.0000e-004    | 1.0000e-005   | 3.1000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.1400e-003   | 1.0000e-005  | 1.1500e-003 | 3.0000e-004    | 1.0000e-005   | 3.1000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category      | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Fugitive Dust |         |        |        |             | 0.0903        | 0.0000       | 0.0903     | 0.0497         | 0.0000        | 0.0497      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 |               | 0.0120       | 0.0120     |                | 0.0110        | 0.0110      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |
| Total         | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 | 0.0903        | 0.0120       | 0.1023     | 0.0497         | 0.0110        | 0.0607      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |

#### 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|



|              |                    |                    |                    |                    |                    |                    |                    |                    |               |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Worker       | 3.5000e-004        | 2.7000e-004        | 2.6300e-003        | 1.0000e-005        | 6.8000e-004        | 1.0000e-005        | 6.9000e-004        | 1.8000e-004        | 0.0000        | 1.9000e-004        | 0.0000        | 0.6737        | 0.6737        | 2.0000e-005        | 0.0000        | 0.6742        |
| <b>Total</b> | <b>3.5000e-004</b> | <b>2.7000e-004</b> | <b>2.6300e-003</b> | <b>1.0000e-005</b> | <b>6.8000e-004</b> | <b>1.0000e-005</b> | <b>6.9000e-004</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>0.6737</b> | <b>0.6737</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6742</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1301        | 0.0000        | 0.1301        | 0.0540         | 0.0000        | 0.0540        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0711        | 0.8178        | 0.5007        | 9.3000e-004        |               | 0.0357        | 0.0357        |                | 0.0329        | 0.0329        | 0.0000        | 83.5520        | 83.5520        | 0.0264        | 0.0000        | 84.2129        |
| <b>Total</b>  | <b>0.0711</b> | <b>0.8178</b> | <b>0.5007</b> | <b>9.3000e-004</b> | <b>0.1301</b> | <b>0.0357</b> | <b>0.1658</b> | <b>0.0540</b>  | <b>0.0329</b> | <b>0.0868</b> | <b>0.0000</b> | <b>83.5520</b> | <b>83.5520</b> | <b>0.0264</b> | <b>0.0000</b> | <b>84.2129</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       | 1.1800e-003        | 9.1000e-004        | 8.7800e-003        | 2.0000e-005        | 2.4100e-003        | 2.0000e-005        | 2.4200e-003        | 6.4000e-004        | 2.0000e-005        | 6.6000e-004        | 0.0000        | 2.2455        | 2.2455        | 7.0000e-005        | 0.0000        | 2.2473        |
| <b>Total</b> | <b>1.1800e-003</b> | <b>9.1000e-004</b> | <b>8.7800e-003</b> | <b>2.0000e-005</b> | <b>2.4100e-003</b> | <b>2.0000e-005</b> | <b>2.4200e-003</b> | <b>6.4000e-004</b> | <b>2.0000e-005</b> | <b>6.6000e-004</b> | <b>0.0000</b> | <b>2.2455</b> | <b>2.2455</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2473</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0556        | 0.0000        | 0.0556        | 0.0231         | 0.0000        | 0.0231        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0711        | 0.8178        | 0.5007        | 9.3000e-004        |               | 0.0357        | 0.0357        |                | 0.0329        | 0.0329        | 0.0000        | 83.5519        | 83.5519        | 0.0264        | 0.0000        | 84.2128        |
| <b>Total</b>  | <b>0.0711</b> | <b>0.8178</b> | <b>0.5007</b> | <b>9.3000e-004</b> | <b>0.0556</b> | <b>0.0357</b> | <b>0.0914</b> | <b>0.0231</b>  | <b>0.0329</b> | <b>0.0559</b> | <b>0.0000</b> | <b>83.5519</b> | <b>83.5519</b> | <b>0.0264</b> | <b>0.0000</b> | <b>84.2128</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       | 1.1800e-003        | 9.1000e-004        | 8.7800e-003        | 2.0000e-005        | 2.2800e-003        | 2.0000e-005        | 2.3000e-003        | 6.1000e-004        | 2.0000e-005        | 6.2000e-004        | 0.0000        | 2.2455        | 2.2455        | 7.0000e-005        | 0.0000        | 2.2473        |
| <b>Total</b> | <b>1.1800e-003</b> | <b>9.1000e-004</b> | <b>8.7800e-003</b> | <b>2.0000e-005</b> | <b>2.2800e-003</b> | <b>2.0000e-005</b> | <b>2.3000e-003</b> | <b>6.1000e-004</b> | <b>2.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>2.2455</b> | <b>2.2455</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2473</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

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

| Category     | tons/yr       |               |               |                    |  |               |               |  |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Off-Road     | 0.2137        | 1.9076        | 1.5533        | 2.4400e-003        |  | 0.1167        | 0.1167        |  | 0.1098        | 0.1098        | 0.0000        | 212.7693        | 212.7693        | 0.0518        | 0.0000        | 214.0651        |
| <b>Total</b> | <b>0.2137</b> | <b>1.9076</b> | <b>1.5533</b> | <b>2.4400e-003</b> |  | <b>0.1167</b> | <b>0.1167</b> |  | <b>0.1098</b> | <b>0.1098</b> | <b>0.0000</b> | <b>212.7693</b> | <b>212.7693</b> | <b>0.0518</b> | <b>0.0000</b> | <b>214.0651</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       | 0.0254        | 0.6816        | 0.1831        | 1.4800e-003        | 0.0360        | 4.7200e-003        | 0.0408        | 0.0104         | 4.5100e-003        | 0.0149        | 0.0000        | 144.2631        | 144.2631        | 0.0116        | 0.0000        | 144.5526        |
| Worker       | 0.0878        | 0.0674        | 0.6514        | 1.8400e-003        | 0.1785        | 1.3000e-003        | 0.1798        | 0.0474         | 1.2000e-003        | 0.0486        | 0.0000        | 166.6378        | 166.6378        | 5.3600e-003   | 0.0000        | 166.7717        |
| <b>Total</b> | <b>0.1132</b> | <b>0.7489</b> | <b>0.8345</b> | <b>3.3200e-003</b> | <b>0.2146</b> | <b>6.0200e-003</b> | <b>0.2206</b> | <b>0.0579</b>  | <b>5.7100e-003</b> | <b>0.0636</b> | <b>0.0000</b> | <b>310.9009</b> | <b>310.9009</b> | <b>0.0169</b> | <b>0.0000</b> | <b>311.3243</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     | 0.2137        | 1.9076        | 1.5533        | 2.4400e-003        |               | 0.1167        | 0.1167        |                | 0.1098        | 0.1098        | 0.0000        | 212.7690        | 212.7690        | 0.0518        | 0.0000        | 214.0649        |
| <b>Total</b> | <b>0.2137</b> | <b>1.9076</b> | <b>1.5533</b> | <b>2.4400e-003</b> |               | <b>0.1167</b> | <b>0.1167</b> |                | <b>0.1098</b> | <b>0.1098</b> | <b>0.0000</b> | <b>212.7690</b> | <b>212.7690</b> | <b>0.0518</b> | <b>0.0000</b> | <b>214.0649</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       | 0.0254        | 0.6816        | 0.1831        | 1.4800e-003        | 0.0345        | 4.7200e-003        | 0.0392        | 0.0100         | 4.5100e-003        | 0.0145        | 0.0000        | 144.2631        | 144.2631        | 0.0116        | 0.0000        | 144.5526        |
| Worker       | 0.0878        | 0.0674        | 0.6514        | 1.8400e-003        | 0.1693        | 1.3000e-003        | 0.1706        | 0.0452         | 1.2000e-003        | 0.0464        | 0.0000        | 166.6378        | 166.6378        | 5.3600e-003   | 0.0000        | 166.7717        |
| <b>Total</b> | <b>0.1132</b> | <b>0.7489</b> | <b>0.8345</b> | <b>3.3200e-003</b> | <b>0.2038</b> | <b>6.0200e-003</b> | <b>0.2098</b> | <b>0.0552</b>  | <b>5.7100e-003</b> | <b>0.0609</b> | <b>0.0000</b> | <b>310.9009</b> | <b>310.9009</b> | <b>0.0169</b> | <b>0.0000</b> | <b>311.3243</b> |

### 3.6 Paving - 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     | 0.0145        | 0.1524        | 0.1467        | 2.3000e-004        |               | 8.2500e-003        | 8.2500e-003        |                | 7.5900e-003        | 7.5900e-003        | 0.0000        | 20.4752        | 20.4752        | 6.4800e-003        | 0.0000        | 20.6371        |
| Paving       | 6.7500e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0213</b> | <b>0.1524</b> | <b>0.1467</b> | <b>2.3000e-004</b> |               | <b>8.2500e-003</b> | <b>8.2500e-003</b> |                | <b>7.5900e-003</b> | <b>7.5900e-003</b> | <b>0.0000</b> | <b>20.4752</b> | <b>20.4752</b> | <b>6.4800e-003</b> | <b>0.0000</b> | <b>20.6371</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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

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 | 0.0145      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |
| Paving   | 6.7500e-003 |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Total    | 0.0213      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |

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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.1400e-003        | 1.0000e-005        | 1.1500e-003        | 3.0000e-004        | 1.0000e-005        | 3.1000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.1400e-003</b> | <b>1.0000e-005</b> | <b>1.1500e-003</b> | <b>3.0000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

### 3.7 Architectural Coating - 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         |                |                |                    |               |                |
| Archit. Coating | 3.3333        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0189        | 0.1303        | 0.1307        | 2.1000e-004        |               | 9.1400e-003        | 9.1400e-003        |                | 9.1400e-003        | 9.1400e-003        | 0.0000        | 18.1281        | 18.1281        | 1.5300e-003        | 0.0000        | 18.1664        |
| <b>Total</b>    | <b>3.3522</b> | <b>0.1303</b> | <b>0.1307</b> | <b>2.1000e-004</b> |               | <b>9.1400e-003</b> | <b>9.1400e-003</b> |                | <b>9.1400e-003</b> | <b>9.1400e-003</b> | <b>0.0000</b> | <b>18.1281</b> | <b>18.1281</b> | <b>1.5300e-003</b> | <b>0.0000</b> | <b>18.1664</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   | 0.0137  | 0.0105 | 0.1018 | 2.9000e-004 | 0.0279        | 2.0000e-004  | 0.0281     | 7.4100e-003    | 1.9000e-004   | 7.6000e-003 | 0.0000   | 26.0402   | 26.0402   | 8.4000e-004 | 0.0000 | 26.0611 |



|       |        |        |        |             |        |             |        |             |             |             |        |         |         |             |        |         |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|
| Total | 0.0137 | 0.0105 | 0.1018 | 2.9000e-004 | 0.0279 | 2.0000e-004 | 0.0281 | 7.4100e-003 | 1.9000e-004 | 7.6000e-003 | 0.0000 | 26.0402 | 26.0402 | 8.4000e-004 | 0.0000 | 26.0611 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|

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 | 3.3333  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road        | 0.0189  | 0.1303 | 0.1307 | 2.1000e-004 |               | 9.1400e-003  | 9.1400e-003 |                | 9.1400e-003   | 9.1400e-003 | 0.0000   | 18.1281   | 18.1281   | 1.5300e-003 | 0.0000 | 18.1664 |
| Total           | 3.3522  | 0.1303 | 0.1307 | 2.1000e-004 |               | 9.1400e-003  | 9.1400e-003 |                | 9.1400e-003   | 9.1400e-003 | 0.0000   | 18.1281   | 18.1281   | 1.5300e-003 | 0.0000 | 18.1664 |

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   | 0.0137  | 0.0105 | 0.1018 | 2.9000e-004 | 0.0265        | 2.0000e-004  | 0.0267     | 7.0600e-003    | 1.9000e-004   | 7.2500e-003 | 0.0000   | 26.0402   | 26.0402   | 8.4000e-004 | 0.0000 | 26.0611 |
| Total    | 0.0137  | 0.0105 | 0.1018 | 2.9000e-004 | 0.0265        | 2.0000e-004  | 0.0267     | 7.0600e-003    | 1.9000e-004   | 7.2500e-003 | 0.0000   | 26.0402   | 26.0402   | 8.4000e-004 | 0.0000 | 26.0611 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.4527  | 2.0311 | 5.4485 | 0.0177 | 1.4767        | 0.0179       | 1.4945     | 0.3955         | 0.0168        | 0.4122      | 0.0000   | 1,633.6680 | 1,633.6680 | 0.0889 | 0.0000 | 1,635.8895 |
| Unmitigated | 0.4527  | 2.0311 | 5.4485 | 0.0177 | 1.4767        | 0.0179       | 1.4945     | 0.3955         | 0.0168        | 0.4122      | 0.0000   | 1,633.6680 | 1,633.6680 | 0.0889 | 0.0000 | 1,635.8895 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
| Land Use            | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,370.72                | 1,489.28 | 1262.56  | 3,918,064   | 3,918,064  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,370.72                | 1,489.28 | 1,262.56 | 3,918,064   | 3,918,064  |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

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   | 314.6606  | 314.6606  | 0.0127      | 2.6200e-003 | 315.7581 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 314.6606  | 314.6606  | 0.0127      | 2.6200e-003 | 315.7581 |
| NaturalGas Mitigated    | 0.0126  | 0.1076 | 0.0458 | 6.9000e-004 |               | 8.7000e-003  | 8.7000e-003 |                | 8.7000e-003   | 8.7000e-003 | 0.0000   | 124.5993  | 124.5993  | 2.3900e-003 | 2.2800e-003 | 125.3397 |
| NaturalGas Unmitigated  | 0.0126  | 0.1076 | 0.0458 | 6.9000e-004 |               | 8.7000e-003  | 8.7000e-003 |                | 8.7000e-003   | 8.7000e-003 | 0.0000   | 124.5993  | 124.5993  | 2.3900e-003 | 2.2800e-003 | 125.3397 |

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    |           |           |             |             |          |
| Apartments Low Rise | 2.3349e+006    | 0.0126  | 0.1076 | 0.0458 | 6.9000e-004 |               | 8.7000e-003  | 8.7000e-003 |                | 8.7000e-003   | 8.7000e-003 | 0.0000   | 124.5993  | 124.5993  | 2.3900e-003 | 2.2800e-003 | 125.3397 |
| Parking Lot         | 0              | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Total               |                | 0.0126  | 0.1076 | 0.0458 | 6.9000e-004 |               | 8.7000e-003  | 8.7000e-003 |                | 8.7000e-003   | 8.7000e-003 | 0.0000   | 124.5993  | 124.5993  | 2.3900e-003 | 2.2800e-003 | 125.3397 |

Mitigated

|                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|---------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use            | kBTU/yr         | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                 |                 |                    |                    |                 |
| Apartments Low Rise | 2.3349e+06      | 0.0126        | 0.1076        | 0.0458        | 6.9000e-004        |               | 8.7000e-003        | 8.7000e-003        |                | 8.7000e-003        | 8.7000e-003        | 0.0000        | 124.5993        | 124.5993        | 2.3900e-003        | 2.2800e-003        | 125.3397        |
| Parking Lot         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>        |                 | <b>0.0126</b> | <b>0.1076</b> | <b>0.0458</b> | <b>6.9000e-004</b> |               | <b>8.7000e-003</b> | <b>8.7000e-003</b> |                | <b>8.7000e-003</b> | <b>8.7000e-003</b> | <b>0.0000</b> | <b>124.5993</b> | <b>124.5993</b> | <b>2.3900e-003</b> | <b>2.2800e-003</b> | <b>125.3397</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 882748          | 288.4897        | 0.0116        | 2.4000e-003        | 289.4960        |
| Parking Lot         | 80080           | 26.1709         | 1.0500e-003   | 2.2000e-004        | 26.2621         |
| <b>Total</b>        |                 | <b>314.6606</b> | <b>0.0127</b> | <b>2.6200e-003</b> | <b>315.7581</b> |

#### Mitigated

|                     | Electricity Use | Total CO2 | CH4    | N2O         | CO2e     |
|---------------------|-----------------|-----------|--------|-------------|----------|
| Land Use            | kWh/yr          | MT/yr     |        |             |          |
| Apartments Low Rise | 882748          | 288.4897  | 0.0116 | 2.4000e-003 | 289.4960 |

|              |       |                 |               |                    |                 |
|--------------|-------|-----------------|---------------|--------------------|-----------------|
| Parking Lot  | 80080 | 26.1709         | 1.0500e-003   | 2.2000e-004        | 26.2621         |
| <b>Total</b> |       | <b>314.6606</b> | <b>0.0127</b> | <b>2.6200e-003</b> | <b>315.7581</b> |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

### Use only Natural Gas Hearths

|             | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | tons/yr |        |         |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Mitigated   | 1.2231  | 0.1453 | 1.6090  | 8.9000e-004 |               | 0.0188       | 0.0188     |                | 0.0188        | 0.0188      | 0.0000   | 149.9811  | 149.9811  | 5.3100e-003 | 2.7000e-003 | 150.9195 |
| Unmitigated | 14.2594 | 0.2729 | 17.6652 | 0.0293      |               | 2.2674       | 2.2674     |                | 2.2674        | 2.2674      | 214.8552 | 92.6402   | 307.4954  | 0.2008      | 0.0169      | 317.5506 |

## 6.2 Area by SubCategory

**Unmitigated**

[illegible]

|             |         |        |         |             |  |             |             |  |             |             |          |         |          |             |        |          |
|-------------|---------|--------|---------|-------------|--|-------------|-------------|--|-------------|-------------|----------|---------|----------|-------------|--------|----------|
| Hearth      | 13.0512 | 0.2549 | 16.1103 | 0.0292      |  | 2.2588      | 2.2588      |  | 2.2588      | 2.2588      | 214.8552 | 90.1071 | 304.9623 | 0.1983      | 0.0169 | 314.9554 |
| Landscaping | 0.0477  | 0.0180 | 1.5549  | 8.0000e-005 |  | 8.5400e-003 | 8.5400e-003 |  | 8.5400e-003 | 8.5400e-003 | 0.0000   | 2.5330  | 2.5330   | 2.4900e-003 | 0.0000 | 2.5952   |
| Total       | 14.2594 | 0.2729 | 17.6652 | 0.0293      |  | 2.2674      | 2.2674      |  | 2.2674      | 2.2674      | 214.8552 | 92.6402 | 307.4954 | 0.2008      | 0.0169 | 317.5506 |

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 | 0.3333  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Consumer Products     | 0.8271  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Hearth                | 0.0149  | 0.1273 | 0.0542 | 8.1000e-004 |               | 0.0103       | 0.0103      |                | 0.0103        | 0.0103      | 0.0000   | 147.4480  | 147.4480  | 2.8300e-003 | 2.7000e-003 | 148.3243 |
| Landscaping           | 0.0477  | 0.0180 | 1.5549 | 8.0000e-005 |               | 8.5400e-003  | 8.5400e-003 |                | 8.5400e-003   | 8.5400e-003 | 0.0000   | 2.5330    | 2.5330    | 2.4900e-003 | 0.0000      | 2.5952   |
| Total                 | 1.2230  | 0.1453 | 1.6090 | 8.9000e-004 |               | 0.0188       | 0.0188      |                | 0.0188        | 0.0188      | 0.0000   | 149.9811  | 149.9811  | 5.3200e-003 | 2.7000e-003 | 150.9195 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

|             | Total CO2 | CH4    | N2O         | CO2e     |
|-------------|-----------|--------|-------------|----------|
| Category    | MT/yr     |        |             |          |
| Mitigated   | 78.7033   | 0.3563 | 8.9700e-003 | 90.2834  |
| Unmitigated | 92.9892   | 0.4452 | 0.0112      | 107.4456 |

7.2 Water by Land Use

Unmitigated

|                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|--------------------|-----------|--------|--------|----------|
| Land Use            | Mgal               | MT/yr     |        |        |          |
| Apartments Low Rise | 13.552 / 8.54368   | 92.9892   | 0.4452 | 0.0112 | 107.4456 |
| Parking Lot         | 0 / 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                    | 92.9892   | 0.4452 | 0.0112 | 107.4456 |

Mitigated

|  | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|-----|------|
|--|--------------------|-----------|-----|-----|------|

| Land Use            | Mgal              | MT/yr          |               |                    |                |
|---------------------|-------------------|----------------|---------------|--------------------|----------------|
| Apartments Low Rise | 10.8416 / 8.02251 | 78.7033        | 0.3563        | 8.9700e-003        | 90.2834        |
| Parking Lot         | 0 / 0             | 0.0000         | 0.0000        | 0.0000             | 0.0000         |
| <b>Total</b>        |                   | <b>78.7033</b> | <b>0.3563</b> | <b>8.9700e-003</b> | <b>90.2834</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 9.7111    | 0.5739 | 0.0000 | 24.0588 |
| Unmitigated | 19.4222   | 1.1478 | 0.0000 | 48.1176 |

### 8.2 Waste by Land Use

#### Unmitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |



|                     |       |                |               |               |                |
|---------------------|-------|----------------|---------------|---------------|----------------|
| Apartments Low Rise | 95.68 | 19.4222        | 1.1478        | 0.0000        | 48.1176        |
| Parking Lot         | 0     | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |       | <b>19.4222</b> | <b>1.1478</b> | <b>0.0000</b> | <b>48.1176</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e           |
|---------------------|----------------|---------------|---------------|---------------|----------------|
| Land Use            | tons           | MT/yr         |               |               |                |
| Apartments Low Rise | 47.84          | 9.7111        | 0.5739        | 0.0000        | 24.0588        |
| Parking Lot         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |                | <b>9.7111</b> | <b>0.5739</b> | <b>0.0000</b> | <b>24.0588</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Encinitas HE - #2 - San Diego County, Summer

## Encinitas HE - #2

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 208.00 | Dwelling Unit | 6.90        | 208,000.00         | 595        |
| Parking Lot         | 572.00 | Space         | 5.15        | 228,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                |                          |                                |       |                                  |       |
|--------------------------------|--------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                    | <b>Wind Speed (m/s)</b>        | 2.6   | <b>Precipitation Freq (Days)</b> | 40    |
| <b>Climate Zone</b>            | 13                       | <b>Operational Year</b>        | 2020  |                                  |       |
| <b>Utility Company</b>         | San Diego Gas & Electric |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 720.49                   | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

Project Characteristics -

Land Use - Site 2 = approx 6.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 2 = 6.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 13.00         | 6.90       |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 51.0101 | 54.5750 | 33.9956 | 0.0722 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,216.2169 | 7,216.2169 | 1.9482 | 0.0000 | 7,238.0720 |
| Maximum | 51.0101 | 54.5750 | 33.9956 | 0.0722 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,216.2169 | 7,216.2169 | 1.9482 | 0.0000 | 7,238.0720 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 51.0101 | 54.5750 | 33.9956 | 0.0722 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,216.2169 | 7,216.2169 | 1.9482 | 0.0000 | 7,238.0720 |
| Maximum | 51.0101 | 54.5750 | 33.9956 | 0.0722 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,216.2169 | 7,216.2169 | 1.9482 | 0.0000 | 7,238.0720 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 325.2107 | 6.4161  | 410.2102 | 0.7128      |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123  | 8,230.1323  | 5.3612 | 0.4544 | 8,499.5645  |
| Energy   | 0.0690   | 0.5895  | 0.2509   | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |            | 752.5872    | 752.5872    | 0.0144 | 0.0138 | 757.0595    |
| Mobile   | 2.8438   | 11.7174 | 33.3894  | 0.1106      | 9.0174        | 0.1063       | 9.1237     | 2.4103         | 0.0997        | 2.5100      |            | 11,221.1811 | 11,221.1811 | 0.5885 |        | 11,235.8927 |
| Total    | 328.1234 | 18.7230 | 443.8504 | 0.8272      | 9.0174        | 55.3419      | 64.3594    | 2.4103         | 55.3354       | 57.7457     | 5,776.5200 | 14,427.3807 | 20,203.9007 | 5.9641 | 0.4682 | 20,492.5167 |

Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.2519         | 3.3050         | 18.5975        | 0.0207        |               | 0.3460        | 0.3460        |                | 0.3460        | 0.3460        | 0.0000        | 3,995.2594         | 3,995.2594         | 0.1065        | 0.0727        | 4,019.5785         |
| Energy       | 0.0690         | 0.5895         | 0.2509         | 3.7600e-003   |               | 0.0477        | 0.0477        |                | 0.0477        | 0.0477        |               | 752.5872           | 752.5872           | 0.0144        | 0.0138        | 757.0595           |
| Mobile       | 2.8438         | 11.7174        | 33.3894        | 0.1106        | 9.0174        | 0.1063        | 9.1237        | 2.4103         | 0.0997        | 2.5100        |               | 11,221.1811        | 11,221.1811        | 0.5885        |               | 11,235.8927        |
| <b>Total</b> | <b>10.1647</b> | <b>15.6119</b> | <b>52.2377</b> | <b>0.1351</b> | <b>9.0174</b> | <b>0.4999</b> | <b>9.5173</b> | <b>2.4103</b>  | <b>0.4933</b> | <b>2.9036</b> | <b>0.0000</b> | <b>15,969.0277</b> | <b>15,969.0277</b> | <b>0.7093</b> | <b>0.0865</b> | <b>16,012.5306</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>96.90</b> | <b>16.62</b> | <b>88.23</b> | <b>83.67</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-10.69</b> | <b>20.96</b> | <b>88.11</b> | <b>81.53</b> | <b>21.86</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 3/25/2019  | 5             | 30       |                   |
| 4            | Building Construction | Building Construction | 4/23/2019  | 12/31/2019 | 5             | 181      |                   |
| 5            | Paving                | Paving                | 3/26/2019  | 4/22/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/16/2019  | 12/31/2019 | 5             | 142      |                   |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.15**

Residential Indoor: 421,200; Residential Outdoor: 140,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 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       | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Building Construction | 9 | 246.00 | 60.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 49.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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



|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |                    |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|--------------------|--|-----------------|
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 130.5300        | 130.5300        | 4.1700e-003        |  | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b> | <b>8.1000e-004</b> | <b>0.0335</b> |  | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |  | <b>130.6342</b> |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.7949</b> | <b>1.7949</b> | <b>0.0000</b>  | <b>1.6697</b> | <b>1.6697</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168 | 8.8000e-004 | 0.1177 | 0.0311 | 8.1000e-004 | 0.0319 |  | 130.5300 | 130.5300 | 4.1700e-003 |  | 130.6342 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |
| Total    | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0707        | 0.0493        | 0.5569        | 1.5700e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 156.6359        | 156.6359        | 5.0000e-003        |     | 156.7610        |
| <b>Total</b> | <b>0.0707</b> | <b>0.0493</b> | <b>0.5569</b> | <b>1.5700e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>156.6359</b> | <b>156.6359</b> | <b>5.0000e-003</b> |     | <b>156.7610</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 |     | 0.0000     |
| Vendor   | 0.2762 | 7.4393 | 1.9206 | 0.0166 | 0.4062        | 0.0518       | 0.4579     | 0.1169         | 0.0495        | 0.1664      |          | 1,776.0998 | 1,776.0998 | 0.1371 |     | 1,779.5279 |
| Worker   | 0.9659 | 0.6741 | 7.6115 | 0.0215 | 2.0208        | 0.0144       | 2.0352     | 0.5360         | 0.0133        | 0.5493      |          | 2,140.6911 | 2,140.6911 | 0.0684 |     | 2,142.4000 |
| Total    | 1.2421 | 8.1134 | 9.5321 | 0.0381 | 2.4270        | 0.0662       | 2.4932     | 0.6530         | 0.0628        | 0.7157      |          | 3,916.7909 | 3,916.7909 | 0.2055 |     | 3,921.9280 |

Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |               |               |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.2762        | 7.4393        | 1.9206        | 0.0166        | 0.3888        | 0.0518        | 0.4406        | 0.1127        | 0.0495        | 0.1622        |  | 1,776.0998        | 1,776.0998        | 0.1371        |  | 1,779.5279        |
| Worker       | 0.9659        | 0.6741        | 7.6115        | 0.0215        | 1.9155        | 0.0144        | 1.9299        | 0.5102        | 0.0133        | 0.5234        |  | 2,140.6911        | 2,140.6911        | 0.0684        |  | 2,142.4000        |
| <b>Total</b> | <b>1.2421</b> | <b>8.1134</b> | <b>9.5321</b> | <b>0.0381</b> | <b>2.3043</b> | <b>0.0662</b> | <b>2.3704</b> | <b>0.6228</b> | <b>0.0628</b> | <b>0.6856</b> |  | <b>3,916.7909</b> | <b>3,916.7909</b> | <b>0.2055</b> |  | <b>3,921.9280</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.6747        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.1291</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 130.5300        | 130.5300        | 4.1700e-003        |     | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |     | <b>130.6342</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.6747 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.1291 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |
| Total    | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site



|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 46.9480        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>47.2144</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.1924        | 0.1343        | 1.5161        | 4.2800e-003        | 0.4025        | 2.8700e-003        | 0.4054        | 0.1068         | 2.6400e-003        | 0.1094        |          | 426.3978        | 426.3978        | 0.0136        |     | 426.7382        |
| <b>Total</b> | <b>0.1924</b> | <b>0.1343</b> | <b>1.5161</b> | <b>4.2800e-003</b> | <b>0.4025</b> | <b>2.8700e-003</b> | <b>0.4054</b> | <b>0.1068</b>  | <b>2.6400e-003</b> | <b>0.1094</b> |          | <b>426.3978</b> | <b>426.3978</b> | <b>0.0136</b> |     | <b>426.7382</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 46.9480 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>47.2144</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.1924        | 0.1343        | 1.5161        | 4.2800e-003        | 0.3815        | 2.8700e-003        | 0.3844        | 0.1016         | 2.6400e-003        | 0.1043        |          | 426.3978        | 426.3978        | 0.0136        |     | 426.7382        |
| <b>Total</b> | <b>0.1924</b> | <b>0.1343</b> | <b>1.5161</b> | <b>4.2800e-003</b> | <b>0.3815</b> | <b>2.8700e-003</b> | <b>0.3844</b> | <b>0.1016</b>  | <b>2.6400e-003</b> | <b>0.1043</b> |          | <b>426.3978</b> | <b>426.3978</b> | <b>0.0136</b> |     | <b>426.7382</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 2.8438 | 11.7174 | 33.3894 | 0.1106 | 9.0174        | 0.1063       | 9.1237     | 2.4103         | 0.0997        | 2.5100      |          | 11,221.1811 | 11,221.1811 | 0.5885 |     | 11,235.8927 |

|             |        |         |         |        |        |        |        |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 2.8438 | 11.7174 | 33.3894 | 0.1106 | 9.0174 | 0.1063 | 9.1237 | 2.4103 | 0.0997 | 2.5100 |  | 11,221.1811 | 11,221.1811 | 0.5885 |  | 11,235.8927 |
|-------------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,370.72                | 1,489.28 | 1262.56  | 3,918,064   | 3,918,064  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,370.72                | 1,489.28 | 1,262.56 | 3,918,064   | 3,918,064  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |          |          |        |        |          |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--------|----------|
| NaturalGas Mitigated   | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |  | 0.0477 | 0.0477 |  | 0.0477 | 0.0477 |        | 752.5872 | 752.5872 | 0.0144 | 0.0138 | 757.0595 |
| NaturalGas Unmitigated | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |  | 0.0477 | 0.0477 |  | 0.0477 | 0.0477 |        | 752.5872 | 752.5872 | 0.0144 | 0.0138 | 757.0595 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 6396.99        | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |

### Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 6.39699        | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 7.2519   | 3.3050 | 18.5975  | 0.0207 |               | 0.3460       | 0.3460     |                | 0.3460        | 0.3460      | 0.0000     | 3,995.2594 | 3,995.2594 | 0.1065 | 0.0727 | 4,019.5785 |
| Unmitigated | 325.2107 | 6.4161 | 410.2102 | 0.7128 |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123 | 8,230.1323 | 5.3612 | 0.4544 | 8,499.5645 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Architectural Coating | 1.8265   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.5322   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 318.3222 | 6.2165 | 392.9341 | 0.7119      |               | 55.0931      | 55.0931    |                | 55.0931       | 55.0931     | 5,776.5200 | 2,422.5882 | 8,199.1082 | 5.3308 | 0.4544 | 8,467.7788 |
| Landscaping           | 0.5298   | 0.1997 | 17.2761  | 9.1000e-004 |               | 0.0949       | 0.0949     |                | 0.0949        | 0.0949      |            | 31.0241    | 31.0241    | 0.0305 |        | 31.7857    |
| Total                 | 325.2107 | 6.4161 | 410.2102 | 0.7128      |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123 | 8,230.1323 | 5.3612 | 0.4544 | 8,499.5645 |

Mitigated

|                       | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 1.8265 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.5322 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.3634 | 3.1053 | 1.3214  | 0.0198      |               | 0.2511       | 0.2511     |                | 0.2511        | 0.2511      | 0.0000   | 3,964.2353 | 3,964.2353 | 0.0760 | 0.0727 | 3,987.7928 |
| Landscaping           | 0.5298 | 0.1997 | 17.2761 | 9.1000e-004 |               | 0.0949       | 0.0949     |                | 0.0949        | 0.0949      |          | 31.0241    | 31.0241    | 0.0305 |        | 31.7857    |
| Total                 | 7.2519 | 3.3050 | 18.5975 | 0.0207      |               | 0.3460       | 0.3460     |                | 0.3460        | 0.3460      | 0.0000   | 3,995.2594 | 3,995.2594 | 0.1065 | 0.0727 | 4,019.5785 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - #2 - San Diego County, Winter

## Encinitas HE - #2

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 208.00 | Dwelling Unit | 6.90        | 208,000.00         | 595        |
| Parking Lot         | 572.00 | Space         | 5.15        | 228,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       | <b>Operational Year</b>             | 2020  |                                     |       |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 2 = approx 6.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 2 = 6.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -



Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 13.00         | 6.90       |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 51.1737 | 54.5817 | 33.9616 | 0.0702 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,013.9253 | 7,013.9253 | 1.9479 | 0.0000 | 7,035.8938 |
| Maximum | 51.1737 | 54.5817 | 33.9616 | 0.0702 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,013.9253 | 7,013.9253 | 1.9479 | 0.0000 | 7,035.8938 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 51.1737 | 54.5817 | 33.9616 | 0.0702 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,013.9253 | 7,013.9253 | 1.9479 | 0.0000 | 7,035.8938 |
| Maximum | 51.1737 | 54.5817 | 33.9616 | 0.0702 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,013.9253 | 7,013.9253 | 1.9479 | 0.0000 | 7,035.8938 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 325.2107 | 6.4161  | 410.2102 | 0.7128      |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123  | 8,230.1323  | 5.3612 | 0.4544 | 8,499.5645  |
| Energy   | 0.0690   | 0.5895  | 0.2509   | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |            | 752.5872    | 752.5872    | 0.0144 | 0.0138 | 757.0595    |
| Mobile   | 2.7675   | 12.0809 | 32.8623  | 0.1049      | 9.0174        | 0.1070       | 9.1244     | 2.4103         | 0.1004        | 2.5107      |            | 10,640.4351 | 10,640.4351 | 0.5900 |        | 10,655.1840 |
| Total    | 328.0472 | 19.0866 | 443.3234 | 0.8214      | 9.0174        | 55.3426      | 64.3601    | 2.4103         | 55.3361       | 57.7463     | 5,776.5200 | 13,846.6347 | 19,623.1547 | 5.9656 | 0.4682 | 19,911.8080 |

Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.2519         | 3.3050         | 18.5975        | 0.0207        |               | 0.3460        | 0.3460        |                | 0.3460        | 0.3460        | 0.0000        | 3,995.2594         | 3,995.2594         | 0.1065        | 0.0727        | 4,019.5785         |
| Energy       | 0.0690         | 0.5895         | 0.2509         | 3.7600e-003   |               | 0.0477        | 0.0477        |                | 0.0477        | 0.0477        |               | 752.5872           | 752.5872           | 0.0144        | 0.0138        | 757.0595           |
| Mobile       | 2.7675         | 12.0809        | 32.8623        | 0.1049        | 9.0174        | 0.1070        | 9.1244        | 2.4103         | 0.1004        | 2.5107        |               | 10,640.4351        | 10,640.4351        | 0.5900        |               | 10,655.1840        |
| <b>Total</b> | <b>10.0884</b> | <b>15.9754</b> | <b>51.7107</b> | <b>0.1294</b> | <b>9.0174</b> | <b>0.5006</b> | <b>9.5180</b> | <b>2.4103</b>  | <b>0.4940</b> | <b>2.9043</b> | <b>0.0000</b> | <b>15,388.2817</b> | <b>15,388.2817</b> | <b>0.7108</b> | <b>0.0865</b> | <b>15,431.8220</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>96.92</b> | <b>16.30</b> | <b>88.34</b> | <b>84.25</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-11.13</b> | <b>21.58</b> | <b>88.08</b> | <b>81.53</b> | <b>22.50</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 3/25/2019  | 5             | 30       |                   |
| 4            | Building Construction | Building Construction | 4/23/2019  | 12/31/2019 | 5             | 181      |                   |
| 5            | Paving                | Paving                | 3/26/2019  | 4/22/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/16/2019  | 12/31/2019 | 5             | 142      |                   |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.15**

Residential Indoor: 421,200; Residential Outdoor: 140,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 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       | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Building Construction | 9 | 246.00 | 60.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 49.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |                    |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|--------------------|--|-----------------|
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 122.5371        | 122.5371        | 3.9500e-003        |  | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b> | <b>8.1000e-004</b> | <b>0.0335</b> |  | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-003</b> |  | <b>122.6359</b> |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.7949</b> | <b>1.7949</b> | <b>0.0000</b>  | <b>1.6697</b> | <b>1.6697</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168 | 8.8000e-004 | 0.1177 | 0.0311 | 8.1000e-004 | 0.0319 |  | 122.5371 | 122.5371 | 3.9500e-003 |  | 122.6359 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |
| Total    | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |

#### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0799        | 0.0554        | 0.5263        | 1.4800e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 147.0445        | 147.0445        | 4.7400e-003        |     | 147.1631        |
| <b>Total</b> | <b>0.0799</b> | <b>0.0554</b> | <b>0.5263</b> | <b>1.4800e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>147.0445</b> | <b>147.0445</b> | <b>4.7400e-003</b> |     | <b>147.1631</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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



|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2880        | 7.4453        | 2.1294        | 0.0162        | 0.4062        | 0.0527        | 0.4589        | 0.1169         | 0.0504        | 0.1673        |          | 1,731.0015        | 1,731.0015        | 0.1459        |     | 1,734.6484        |
| Worker       | 1.0924        | 0.7571        | 7.1929        | 0.0202        | 2.0208        | 0.0144        | 2.0352        | 0.5360         | 0.0133        | 0.5493        |          | 2,009.6078        | 2,009.6078        | 0.0648        |     | 2,011.2289        |
| <b>Total</b> | <b>1.3805</b> | <b>8.2023</b> | <b>9.3223</b> | <b>0.0363</b> | <b>2.4270</b> | <b>0.0671</b> | <b>2.4941</b> | <b>0.6530</b>  | <b>0.0637</b> | <b>0.7166</b> |          | <b>3,740.6093</b> | <b>3,740.6093</b> | <b>0.2107</b> |     | <b>3,745.8773</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.5802        | 2,591.5802        | 0.6313        |     | 2,607.3635        |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.5802</b> | <b>2,591.5802</b> | <b>0.6313</b> |     | <b>2,607.3635</b> |

**Mitigated Construction Off-Site**

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |               |               |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.2880        | 7.4453        | 2.1294        | 0.0162        | 0.3888        | 0.0527        | 0.4415        | 0.1127        | 0.0504        | 0.1631        |  | 1,731.0015        | 1,731.0015        | 0.1459        |  | 1,734.6484        |
| Worker       | 1.0924        | 0.7571        | 7.1929        | 0.0202        | 1.9155        | 0.0144        | 1.9299        | 0.5102        | 0.0133        | 0.5234        |  | 2,009.6078        | 2,009.6078        | 0.0648        |  | 2,011.2289        |
| <b>Total</b> | <b>1.3805</b> | <b>8.2023</b> | <b>9.3223</b> | <b>0.0363</b> | <b>2.3043</b> | <b>0.0671</b> | <b>2.3713</b> | <b>0.6228</b> | <b>0.0637</b> | <b>0.6865</b> |  | <b>3,740.6093</b> | <b>3,740.6093</b> | <b>0.2107</b> |  | <b>3,745.8773</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.6747        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.1291</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 122.5371        | 122.5371        | 3.9500e-003        |     | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-003</b> |     | <b>122.6359</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.6747 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.1291 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |
| Total    | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 46.9480        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>47.2144</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2176        | 0.1508        | 1.4327        | 4.0200e-003        | 0.4025        | 2.8700e-003        | 0.4054        | 0.1068         | 2.6400e-003        | 0.1094        |          | 400.2877        | 400.2877        | 0.0129        |     | 400.6106        |
| <b>Total</b> | <b>0.2176</b> | <b>0.1508</b> | <b>1.4327</b> | <b>4.0200e-003</b> | <b>0.4025</b> | <b>2.8700e-003</b> | <b>0.4054</b> | <b>0.1068</b>  | <b>2.6400e-003</b> | <b>0.1094</b> |          | <b>400.2877</b> | <b>400.2877</b> | <b>0.0129</b> |     | <b>400.6106</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 46.9480 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>47.2144</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2176        | 0.1508        | 1.4327        | 4.0200e-003        | 0.3815        | 2.8700e-003        | 0.3844        | 0.1016         | 2.6400e-003        | 0.1043        |          | 400.2877        | 400.2877        | 0.0129        |     | 400.6106        |
| <b>Total</b> | <b>0.2176</b> | <b>0.1508</b> | <b>1.4327</b> | <b>4.0200e-003</b> | <b>0.3815</b> | <b>2.8700e-003</b> | <b>0.3844</b> | <b>0.1016</b>  | <b>2.6400e-003</b> | <b>0.1043</b> |          | <b>400.2877</b> | <b>400.2877</b> | <b>0.0129</b> |     | <b>400.6106</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 2.7675 | 12.0809 | 32.8623 | 0.1049 | 9.0174        | 0.1070       | 9.1244     | 2.4103         | 0.1004        | 2.5107      |          | 10,640.4351 | 10,640.4351 | 0.5900 |     | 10,655.1840 |

|             |        |         |         |        |        |        |        |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 2.7675 | 12.0809 | 32.8623 | 0.1049 | 9.0174 | 0.1070 | 9.1244 | 2.4103 | 0.1004 | 2.5107 |  | 10,640.4351 | 10,640.4351 | 0.5900 |  | 10,655.1840 |
|-------------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,370.72                | 1,489.28 | 1262.56  | 3,918,064   | 3,918,064  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,370.72                | 1,489.28 | 1,262.56 | 3,918,064   | 3,918,064  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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



| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |          |          |        |        |          |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--------|----------|
| NaturalGas Mitigated   | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |  | 0.0477 | 0.0477 |  | 0.0477 | 0.0477 |        | 752.5872 | 752.5872 | 0.0144 | 0.0138 | 757.0595 |
| NaturalGas Unmitigated | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |  | 0.0477 | 0.0477 |  | 0.0477 | 0.0477 |        | 752.5872 | 752.5872 | 0.0144 | 0.0138 | 757.0595 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 6396.99        | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |

### Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 6.39699        | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0690 | 0.5895 | 0.2509 | 3.7600e-003 |               | 0.0477       | 0.0477     |                | 0.0477        | 0.0477      |          | 752.5872  | 752.5872  | 0.0144 | 0.0138 | 757.0595 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 7.2519   | 3.3050 | 18.5975  | 0.0207 |               | 0.3460       | 0.3460     |                | 0.3460        | 0.3460      | 0.0000     | 3,995.2594 | 3,995.2594 | 0.1065 | 0.0727 | 4,019.5785 |
| Unmitigated | 325.2107 | 6.4161 | 410.2102 | 0.7128 |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123 | 8,230.1323 | 5.3612 | 0.4544 | 8,499.5645 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Architectural Coating | 1.8265   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.5322   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 318.3222 | 6.2165 | 392.9341 | 0.7119      |               | 55.0931      | 55.0931    |                | 55.0931       | 55.0931     | 5,776.5200 | 2,422.5882 | 8,199.1082 | 5.3308 | 0.4544 | 8,467.7788 |
| Landscaping           | 0.5298   | 0.1997 | 17.2761  | 9.1000e-004 |               | 0.0949       | 0.0949     |                | 0.0949        | 0.0949      |            | 31.0241    | 31.0241    | 0.0305 |        | 31.7857    |
| Total                 | 325.2107 | 6.4161 | 410.2102 | 0.7128      |               | 55.1880      | 55.1880    |                | 55.1880       | 55.1880     | 5,776.5200 | 2,453.6123 | 8,230.1323 | 5.3612 | 0.4544 | 8,499.5645 |

Mitigated

|                       | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 1.8265 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.5322 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.3634 | 3.1053 | 1.3214  | 0.0198      |               | 0.2511       | 0.2511     |                | 0.2511        | 0.2511      | 0.0000   | 3,964.2353 | 3,964.2353 | 0.0760 | 0.0727 | 3,987.7928 |
| Landscaping           | 0.5298 | 0.1997 | 17.2761 | 9.1000e-004 |               | 0.0949       | 0.0949     |                | 0.0949        | 0.0949      |          | 31.0241    | 31.0241    | 0.0305 |        | 31.7857    |
| Total                 | 7.2519 | 3.3050 | 18.5975 | 0.0207      |               | 0.3460       | 0.3460     |                | 0.3460        | 0.3460      | 0.0000   | 3,995.2594 | 3,995.2594 | 0.1065 | 0.0727 | 4,019.5785 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - #3 - San Diego County, Annual

### Encinitas HE - #3 San Diego County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 228.00 | Dwelling Unit | 7.60        | 228,000.00         | 652        |
| Parking Lot         | 627.00 | Space         | 5.64        | 250,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       |                                     |       | <b>Operational Year</b>             | 2020  |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 3 = approx 7.6ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 14.25         | 7.60       |

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    | 4.1780  | 4.4198 | 3.7080 | 8.3900e-003 | 0.4917        | 0.2066       | 0.6983     | 0.1766         | 0.1935        | 0.3701      | 0.0000   | 759.6774  | 759.6774  | 0.1208 | 0.0000 | 762.6981 |
| Maximum | 4.1780  | 4.4198 | 3.7080 | 8.3900e-003 | 0.4917        | 0.2066       | 0.6983     | 0.1766         | 0.1935        | 0.3701      | 0.0000   | 759.6774  | 759.6774  | 0.1208 | 0.0000 | 762.6981 |

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    | 4.1780  | 4.4198 | 3.7080 | 8.3900e-003 | 0.3518        | 0.2066       | 0.5584     | 0.1139         | 0.1935        | 0.3074      | 0.0000   | 759.6770  | 759.6770  | 0.1208 | 0.0000 | 762.6976 |
| Maximum | 4.1780  | 4.4198 | 3.7080 | 8.3900e-003 | 0.3518        | 0.2066       | 0.5584     | 0.1139         | 0.1935        | 0.3074      | 0.0000   | 759.6770  | 759.6770  | 0.1208 | 0.0000 | 762.6976 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 28.46         | 0.00         | 20.04      | 35.50          | 0.00          | 16.94       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019 | 1.5731                                       | 1.5731                                     |
| 2       | 4-1-2019   | 6-30-2019 | 1.2546                                       | 1.2546                                     |
| 3       | 7-1-2019   | 9-30-2019 | 2.8757                                       | 2.8757                                     |
|         |            | Highest   | 2.8757                                       | 2.8757                                     |

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     | 15.6305 | 0.2991 | 19.3637 | 0.0321      |               | 2.4854       | 2.4854      |                | 2.4854        | 2.4854      | 235.5144 | 101.5479  | 337.0622  | 0.2201 | 0.0185      | 348.0843 |
| Energy   | 0.0138  | 0.1179 | 0.0502  | 7.5000e-004 |               | 9.5400e-003  | 9.5400e-003 |                | 9.5400e-003   | 9.5400e-003 | 0.0000   | 481.4964  | 481.4964  | 0.0165 | 5.3800e-003 | 483.5110 |

|              |                |               |                |               |               |               |               |               |               |               |                 |                   |                   |               |               |                   |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Mobile       | 0.4962         | 2.2264        | 5.9724         | 0.0195        | 1.6187        | 0.0196        | 1.6382        | 0.4335        | 0.0184        | 0.4519        | 0.0000          | 1,790.7515        | 1,790.7515        | 0.0974        | 0.0000        | 1,793.1865        |
| Waste        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 21.2897         | 0.0000            | 21.2897           | 1.2582        | 0.0000        | 52.7443           |
| Water        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 4.7128          | 97.2177           | 101.9305          | 0.4880        | 0.0122        | 117.7770          |
| <b>Total</b> | <b>16.1404</b> | <b>2.6434</b> | <b>25.3863</b> | <b>0.0523</b> | <b>1.6187</b> | <b>2.5145</b> | <b>4.1331</b> | <b>0.4335</b> | <b>2.5133</b> | <b>2.9468</b> | <b>261.5169</b> | <b>2,471.0134</b> | <b>2,732.5303</b> | <b>2.0801</b> | <b>0.0361</b> | <b>2,795.3031</b> |

Mitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.3407        | 0.1593        | 1.7637        | 9.8000e-004   |               | 0.0206        | 0.0206        |                | 0.0206        | 0.0206        | 0.0000         | 164.4023          | 164.4023          | 5.8200e-003   | 2.9600e-003   | 165.4309          |
| Energy       | 0.0138        | 0.1179        | 0.0502        | 7.5000e-004   |               | 9.5400e-003   | 9.5400e-003   |                | 9.5400e-003   | 9.5400e-003   | 0.0000         | 481.4964          | 481.4964          | 0.0165        | 5.3800e-003   | 483.5110          |
| Mobile       | 0.4962        | 2.2264        | 5.9724        | 0.0195        | 1.6187        | 0.0196        | 1.6382        | 0.4335         | 0.0184        | 0.4519        | 0.0000         | 1,790.7515        | 1,790.7515        | 0.0974        | 0.0000        | 1,793.1865        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 10.6449        | 0.0000            | 10.6449           | 0.6291        | 0.0000        | 26.3722           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 3.7703         | 82.5006           | 86.2709           | 0.3906        | 9.8300e-003   | 98.9645           |
| <b>Total</b> | <b>1.8506</b> | <b>2.5036</b> | <b>7.7863</b> | <b>0.0212</b> | <b>1.6187</b> | <b>0.0498</b> | <b>1.6684</b> | <b>0.4335</b>  | <b>0.0485</b> | <b>0.4820</b> | <b>14.4151</b> | <b>2,519.1508</b> | <b>2,533.5659</b> | <b>1.1394</b> | <b>0.0182</b> | <b>2,567.4652</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 | 88.53 | 5.29 | 69.33 | 59.49 | 0.00          | 98.02        | 59.63      | 0.00           | 98.07         | 83.64       | 94.49    | -1.95    | 7.28      | 45.23 | 49.72 | 8.15 |

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            | 1/1/2019  | 1/28/2019  | 5 | 20  |
| 2 | Site Preparation      | Site Preparation      | 1/29/2019 | 2/11/2019  | 5 | 10  |
| 3 | Grading               | Grading               | 2/12/2019 | 3/25/2019  | 5 | 30  |
| 4 | Building Construction | Building Construction | 4/23/2019 | 12/31/2019 | 5 | 181 |
| 5 | Paving                | Paving                | 3/26/2019 | 4/22/2019  | 5 | 20  |
| 6 | Architectural Coating | Architectural Coating | 6/16/2019 | 12/31/2019 | 5 | 142 |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.64**

**Residential Indoor: 461,700; Residential Outdoor: 153,900; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |

|                       |                 |   |      |     |      |
|-----------------------|-----------------|---|------|-----|------|
| Building Construction | Welders         | 1 | 8.00 | 46  | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78  | 0.48 |
| Grading               | Scrapers        | 2 | 8.00 | 367 | 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            | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 270.00             | 65.00              | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 54.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

## Replace Ground Cover

### Water Exposed Area

## Water Unpaved Roads

## Reduce Vehicle Speed on Unpaved Roads

## Clean Paved Roads

### 3.2 Demolition - 2019

### Unmitigated Construction On-Site

[illegible]

|              |               |               |               |                    |               |               |               |               |               |               |               |                |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Off-Road     | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |               | 0.0180        | 0.0180        |               | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8672        |
| <b>Total</b> | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>0.0180</b> | <b>0.0180</b> | <b>0.0000</b> | <b>0.0167</b> | <b>0.0167</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8672</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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.2000e-003        | 1.0000e-005        | 1.2100e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.2000e-003</b> | <b>1.0000e-005</b> | <b>1.2100e-003</b> | <b>3.2000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |               | 0.0180        | 0.0180        |                | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8671        |
| <b>Total</b>  | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>0.0180</b> | <b>0.0180</b> | <b>0.0000</b>  | <b>0.0167</b> | <b>0.0167</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8671</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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.1400e-003   | 1.0000e-005  | 1.1500e-003 | 3.0000e-004    | 1.0000e-005   | 3.1000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.1400e-003   | 1.0000e-005  | 1.1500e-003 | 3.0000e-004    | 1.0000e-005   | 3.1000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category      | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Fugitive Dust |         |        |        |             | 0.0903        | 0.0000       | 0.0903     | 0.0497         | 0.0000        | 0.0497      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 |               | 0.0120       | 0.0120     |                | 0.0110        | 0.0110      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |
| Total         | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 | 0.0903        | 0.0120       | 0.1023     | 0.0497         | 0.0110        | 0.0607      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |

#### 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|



|              |                    |                    |                    |                    |                    |                    |                    |                    |               |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Worker       | 3.5000e-004        | 2.7000e-004        | 2.6300e-003        | 1.0000e-005        | 6.8000e-004        | 1.0000e-005        | 6.9000e-004        | 1.8000e-004        | 0.0000        | 1.9000e-004        | 0.0000        | 0.6737        | 0.6737        | 2.0000e-005        | 0.0000        | 0.6742        |
| <b>Total</b> | <b>3.5000e-004</b> | <b>2.7000e-004</b> | <b>2.6300e-003</b> | <b>1.0000e-005</b> | <b>6.8000e-004</b> | <b>1.0000e-005</b> | <b>6.9000e-004</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>0.6737</b> | <b>0.6737</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6742</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1301        | 0.0000        | 0.1301        | 0.0540         | 0.0000        | 0.0540        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0711        | 0.8178        | 0.5007        | 9.3000e-004        |               | 0.0357        | 0.0357        |                | 0.0329        | 0.0329        | 0.0000        | 83.5520        | 83.5520        | 0.0264        | 0.0000        | 84.2129        |
| <b>Total</b>  | <b>0.0711</b> | <b>0.8178</b> | <b>0.5007</b> | <b>9.3000e-004</b> | <b>0.1301</b> | <b>0.0357</b> | <b>0.1658</b> | <b>0.0540</b>  | <b>0.0329</b> | <b>0.0868</b> | <b>0.0000</b> | <b>83.5520</b> | <b>83.5520</b> | <b>0.0264</b> | <b>0.0000</b> | <b>84.2129</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       | 1.1800e-003        | 9.1000e-004        | 8.7800e-003        | 2.0000e-005        | 2.4100e-003        | 2.0000e-005        | 2.4200e-003        | 6.4000e-004        | 2.0000e-005        | 6.6000e-004        | 0.0000        | 2.2455        | 2.2455        | 7.0000e-005        | 0.0000        | 2.2473        |
| <b>Total</b> | <b>1.1800e-003</b> | <b>9.1000e-004</b> | <b>8.7800e-003</b> | <b>2.0000e-005</b> | <b>2.4100e-003</b> | <b>2.0000e-005</b> | <b>2.4200e-003</b> | <b>6.4000e-004</b> | <b>2.0000e-005</b> | <b>6.6000e-004</b> | <b>0.0000</b> | <b>2.2455</b> | <b>2.2455</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2473</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0556        | 0.0000        | 0.0556        | 0.0231         | 0.0000        | 0.0231        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0711        | 0.8178        | 0.5007        | 9.3000e-004        |               | 0.0357        | 0.0357        |                | 0.0329        | 0.0329        | 0.0000        | 83.5519        | 83.5519        | 0.0264        | 0.0000        | 84.2128        |
| <b>Total</b>  | <b>0.0711</b> | <b>0.8178</b> | <b>0.5007</b> | <b>9.3000e-004</b> | <b>0.0556</b> | <b>0.0357</b> | <b>0.0914</b> | <b>0.0231</b>  | <b>0.0329</b> | <b>0.0559</b> | <b>0.0000</b> | <b>83.5519</b> | <b>83.5519</b> | <b>0.0264</b> | <b>0.0000</b> | <b>84.2128</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       | 1.1800e-003        | 9.1000e-004        | 8.7800e-003        | 2.0000e-005        | 2.2800e-003        | 2.0000e-005        | 2.3000e-003        | 6.1000e-004        | 2.0000e-005        | 6.2000e-004        | 0.0000        | 2.2455        | 2.2455        | 7.0000e-005        | 0.0000        | 2.2473        |
| <b>Total</b> | <b>1.1800e-003</b> | <b>9.1000e-004</b> | <b>8.7800e-003</b> | <b>2.0000e-005</b> | <b>2.2800e-003</b> | <b>2.0000e-005</b> | <b>2.3000e-003</b> | <b>6.1000e-004</b> | <b>2.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>2.2455</b> | <b>2.2455</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2473</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

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

| Category     | tons/yr       |               |               |                    |  |               |               |  |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Off-Road     | 0.2137        | 1.9076        | 1.5533        | 2.4400e-003        |  | 0.1167        | 0.1167        |  | 0.1098        | 0.1098        | 0.0000        | 212.7693        | 212.7693        | 0.0518        | 0.0000        | 214.0651        |
| <b>Total</b> | <b>0.2137</b> | <b>1.9076</b> | <b>1.5533</b> | <b>2.4400e-003</b> |  | <b>0.1167</b> | <b>0.1167</b> |  | <b>0.1098</b> | <b>0.1098</b> | <b>0.0000</b> | <b>212.7693</b> | <b>212.7693</b> | <b>0.0518</b> | <b>0.0000</b> | <b>214.0651</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       | 0.0276        | 0.7384        | 0.1984        | 1.6100e-003        | 0.0390        | 5.1100e-003        | 0.0442        | 0.0113         | 4.8900e-003        | 0.0162        | 0.0000        | 156.2851        | 156.2851        | 0.0125        | 0.0000        | 156.5986        |
| Worker       | 0.0963        | 0.0739        | 0.7150        | 2.0200e-003        | 0.1960        | 1.4300e-003        | 0.1974        | 0.0521         | 1.3200e-003        | 0.0534        | 0.0000        | 182.8951        | 182.8951        | 5.8800e-003   | 0.0000        | 183.0422        |
| <b>Total</b> | <b>0.1239</b> | <b>0.8123</b> | <b>0.9133</b> | <b>3.6300e-003</b> | <b>0.2350</b> | <b>6.5400e-003</b> | <b>0.2415</b> | <b>0.0633</b>  | <b>6.2100e-003</b> | <b>0.0696</b> | <b>0.0000</b> | <b>339.1802</b> | <b>339.1802</b> | <b>0.0184</b> | <b>0.0000</b> | <b>339.6408</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     | 0.2137        | 1.9076        | 1.5533        | 2.4400e-003        |               | 0.1167        | 0.1167        |                | 0.1098        | 0.1098        | 0.0000        | 212.7690        | 212.7690        | 0.0518        | 0.0000        | 214.0649        |
| <b>Total</b> | <b>0.2137</b> | <b>1.9076</b> | <b>1.5533</b> | <b>2.4400e-003</b> |               | <b>0.1167</b> | <b>0.1167</b> |                | <b>0.1098</b> | <b>0.1098</b> | <b>0.0000</b> | <b>212.7690</b> | <b>212.7690</b> | <b>0.0518</b> | <b>0.0000</b> | <b>214.0649</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       | 0.0276        | 0.7384        | 0.1984        | 1.6100e-003        | 0.0374        | 5.1100e-003        | 0.0425        | 0.0109         | 4.8900e-003        | 0.0158        | 0.0000        | 156.2851        | 156.2851        | 0.0125        | 0.0000        | 156.5986        |
| Worker       | 0.0963        | 0.0739        | 0.7150        | 2.0200e-003        | 0.1858        | 1.4300e-003        | 0.1872        | 0.0496         | 1.3200e-003        | 0.0509        | 0.0000        | 182.8951        | 182.8951        | 5.8800e-003   | 0.0000        | 183.0422        |
| <b>Total</b> | <b>0.1239</b> | <b>0.8123</b> | <b>0.9133</b> | <b>3.6300e-003</b> | <b>0.2232</b> | <b>6.5400e-003</b> | <b>0.2297</b> | <b>0.0604</b>  | <b>6.2100e-003</b> | <b>0.0667</b> | <b>0.0000</b> | <b>339.1802</b> | <b>339.1802</b> | <b>0.0184</b> | <b>0.0000</b> | <b>339.6408</b> |

### 3.6 Paving - 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     | 0.0145        | 0.1524        | 0.1467        | 2.3000e-004        |               | 8.2500e-003        | 8.2500e-003        |                | 7.5900e-003        | 7.5900e-003        | 0.0000        | 20.4752        | 20.4752        | 6.4800e-003        | 0.0000        | 20.6371        |
| Paving       | 7.3900e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0219</b> | <b>0.1524</b> | <b>0.1467</b> | <b>2.3000e-004</b> |               | <b>8.2500e-003</b> | <b>8.2500e-003</b> |                | <b>7.5900e-003</b> | <b>7.5900e-003</b> | <b>0.0000</b> | <b>20.4752</b> | <b>20.4752</b> | <b>6.4800e-003</b> | <b>0.0000</b> | <b>20.6371</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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

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 | 0.0145      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |
| Paving   | 7.3900e-003 |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Total    | 0.0219      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |

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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.1400e-003        | 1.0000e-005        | 1.1500e-003        | 3.0000e-004        | 1.0000e-005        | 3.1000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.1400e-003</b> | <b>1.0000e-005</b> | <b>1.1500e-003</b> | <b>3.0000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

3.7 Architectural Coating - 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         |                |                |                    |               |                |
| Archit. Coating | 3.6538        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0189        | 0.1303        | 0.1307        | 2.1000e-004        |               | 9.1400e-003        | 9.1400e-003        |                | 9.1400e-003        | 9.1400e-003        | 0.0000        | 18.1281        | 18.1281        | 1.5300e-003        | 0.0000        | 18.1664        |
| <b>Total</b>    | <b>3.6727</b> | <b>0.1303</b> | <b>0.1307</b> | <b>2.1000e-004</b> |               | <b>9.1400e-003</b> | <b>9.1400e-003</b> |                | <b>9.1400e-003</b> | <b>9.1400e-003</b> | <b>0.0000</b> | <b>18.1281</b> | <b>18.1281</b> | <b>1.5300e-003</b> | <b>0.0000</b> | <b>18.1664</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   | 0.0151  | 0.0116 | 0.1122 | 3.2000e-004 | 0.0308        | 2.2000e-004  | 0.0310     | 8.1700e-003    | 2.1000e-004   | 8.3800e-003 | 0.0000   | 28.6974  | 28.6974   | 9.2000e-004 | 0.0000 | 28.7204 |

|       |        |        |        |             |        |             |        |             |             |             |        |         |         |             |        |         |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|
| Total | 0.0151 | 0.0116 | 0.1122 | 3.2000e-004 | 0.0308 | 2.2000e-004 | 0.0310 | 8.1700e-003 | 2.1000e-004 | 8.3800e-003 | 0.0000 | 28.6974 | 28.6974 | 9.2000e-004 | 0.0000 | 28.7204 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|

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 | 3.6538  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road        | 0.0189  | 0.1303 | 0.1307 | 2.1000e-004 |               | 9.1400e-003  | 9.1400e-003 |                | 9.1400e-003   | 9.1400e-003 | 0.0000   | 18.1281   | 18.1281   | 1.5300e-003 | 0.0000 | 18.1664 |
| Total           | 3.6727  | 0.1303 | 0.1307 | 2.1000e-004 |               | 9.1400e-003  | 9.1400e-003 |                | 9.1400e-003   | 9.1400e-003 | 0.0000   | 18.1281   | 18.1281   | 1.5300e-003 | 0.0000 | 18.1664 |

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   | 0.0151  | 0.0116 | 0.1122 | 3.2000e-004 | 0.0292        | 2.2000e-004  | 0.0294     | 7.7800e-003    | 2.1000e-004   | 7.9800e-003 | 0.0000   | 28.6974   | 28.6974   | 9.2000e-004 | 0.0000 | 28.7204 |
| Total    | 0.0151  | 0.0116 | 0.1122 | 3.2000e-004 | 0.0292        | 2.2000e-004  | 0.0294     | 7.7800e-003    | 2.1000e-004   | 7.9800e-003 | 0.0000   | 28.6974   | 28.6974   | 9.2000e-004 | 0.0000 | 28.7204 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.4962  | 2.2264 | 5.9724 | 0.0195 | 1.6187        | 0.0196       | 1.6382     | 0.4335         | 0.0184        | 0.4519      | 0.0000   | 1,790.7515 | 1,790.7515 | 0.0974 | 0.0000 | 1,793.1865 |
| Unmitigated | 0.4962  | 2.2264 | 5.9724 | 0.0195 | 1.6187        | 0.0196       | 1.6382     | 0.4335         | 0.0184        | 0.4519      | 0.0000   | 1,790.7515 | 1,790.7515 | 0.0974 | 0.0000 | 1,793.1865 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
| Land Use            | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,502.52                | 1,632.48 | 1383.96  | 4,294,800   | 4,294,800  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,502.52                | 1,632.48 | 1,383.96 | 4,294,800   | 4,294,800  |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

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   | 344.9164  | 344.9164  | 0.0139      | 2.8700e-003 | 346.1194 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 344.9164  | 344.9164  | 0.0139      | 2.8700e-003 | 346.1194 |
| NaturalGas Mitigated    | 0.0138  | 0.1179 | 0.0502 | 7.5000e-004 |               | 9.5400e-003  | 9.5400e-003 |                | 9.5400e-003   | 9.5400e-003 | 0.0000   | 136.5800  | 136.5800  | 2.6200e-003 | 2.5000e-003 | 137.3916 |
| NaturalGas Unmitigated  | 0.0138  | 0.1179 | 0.0502 | 7.5000e-004 |               | 9.5400e-003  | 9.5400e-003 |                | 9.5400e-003   | 9.5400e-003 | 0.0000   | 136.5800  | 136.5800  | 2.6200e-003 | 2.5000e-003 | 137.3916 |

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    |           |           |             |             |          |
| Apartments Low Rise | 2.55941e+006   | 0.0138  | 0.1179 | 0.0502 | 7.5000e-004 |               | 9.5400e-003  | 9.5400e-003 |                | 9.5400e-003   | 9.5400e-003 | 0.0000   | 136.5800  | 136.5800  | 2.6200e-003 | 2.5000e-003 | 137.3916 |
| Parking Lot         | 0              | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Total               |                | 0.0138  | 0.1179 | 0.0502 | 7.5000e-004 |               | 9.5400e-003  | 9.5400e-003 |                | 9.5400e-003   | 9.5400e-003 | 0.0000   | 136.5800  | 136.5800  | 2.6200e-003 | 2.5000e-003 | 137.3916 |

Mitigated

|                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|---------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use            | kBTU/yr         | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                 |                 |                    |                    |                 |
| Apartments Low Rise | 2.55941e+006    | 0.0138        | 0.1179        | 0.0502        | 7.5000e-004        |               | 9.5400e-003        | 9.5400e-003        |                | 9.5400e-003        | 9.5400e-003        | 0.0000        | 136.5800        | 136.5800        | 2.6200e-003        | 2.5000e-003        | 137.3916        |
| Parking Lot         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>        |                 | <b>0.0138</b> | <b>0.1179</b> | <b>0.0502</b> | <b>7.5000e-004</b> |               | <b>9.5400e-003</b> | <b>9.5400e-003</b> |                | <b>9.5400e-003</b> | <b>9.5400e-003</b> | <b>0.0000</b> | <b>136.5800</b> | <b>136.5800</b> | <b>2.6200e-003</b> | <b>2.5000e-003</b> | <b>137.3916</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 967627          | 316.2291        | 0.0127        | 2.6300e-003        | 317.3321        |
| Parking Lot         | 87780           | 28.6873         | 1.1500e-003   | 2.4000e-004        | 28.7873         |
| <b>Total</b>        |                 | <b>344.9164</b> | <b>0.0139</b> | <b>2.8700e-003</b> | <b>346.1194</b> |

#### Mitigated

|                     | Electricity Use | Total CO2 | CH4    | N2O         | CO2e     |
|---------------------|-----------------|-----------|--------|-------------|----------|
| Land Use            | kWh/yr          | MT/yr     |        |             |          |
| Apartments Low Rise | 967627          | 316.2291  | 0.0127 | 2.6300e-003 | 317.3321 |

|             |       |          |             |             |          |
|-------------|-------|----------|-------------|-------------|----------|
| Parking Lot | 87780 | 28.6873  | 1.1500e-003 | 2.4000e-004 | 28.7873  |
| Total       |       | 344.9164 | 0.0139      | 2.8700e-003 | 346.1194 |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

## Use only Natural Gas Hearths

|             | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | tons/yr |        |         |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Mitigated   | 1.3407  | 0.1593 | 1.7637  | 9.8000e-004 |               | 0.0206       | 0.0206     |                | 0.0206        | 0.0206      | 0.0000   | 164.4023  | 164.4023  | 5.8200e-003 | 2.9600e-003 | 165.4309 |
| Unmitigated | 15.6305 | 0.2991 | 19.3637 | 0.0321      |               | 2.4854       | 2.4854     |                | 2.4854        | 2.4854      | 235.5144 | 101.5479  | 337.0622  | 0.2201      | 0.0185      | 348.0843 |

## 6.2 Area by SubCategory

**Unmitigated**

[illegible]



|              |                |               |                |               |  |               |               |  |               |               |                 |                 |                 |               |               |                 |
|--------------|----------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Hearth       | 14.3061        | 0.2794        | 17.6594        | 0.0320        |  | 2.4760        | 2.4760        |  | 2.4760        | 2.4760        | 235.5144        | 98.7713         | 334.2856        | 0.2173        | 0.0185        | 345.2396        |
| Landscaping  | 0.0523         | 0.0197        | 1.7044         | 9.0000e-005   |  | 9.3600e-003   | 9.3600e-003   |  | 9.3600e-003   | 9.3600e-003   | 0.0000          | 2.7766          | 2.7766          | 2.7300e-003   | 0.0000        | 2.8447          |
| <b>Total</b> | <b>15.6305</b> | <b>0.2991</b> | <b>19.3637</b> | <b>0.0321</b> |  | <b>2.4854</b> | <b>2.4854</b> |  | <b>2.4854</b> | <b>2.4854</b> | <b>235.5144</b> | <b>101.5479</b> | <b>337.0622</b> | <b>0.2201</b> | <b>0.0185</b> | <b>348.0843</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 | 0.3654        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Consumer Products     | 0.9067        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hearth                | 0.0163        | 0.1396        | 0.0594        | 8.9000e-004        |               | 0.0113        | 0.0113        |                | 0.0113        | 0.0113        | 0.0000        | 161.6257        | 161.6257        | 3.1000e-003        | 2.9600e-003        | 162.5862        |
| Landscaping           | 0.0523        | 0.0197        | 1.7044        | 9.0000e-005        |               | 9.3600e-003   | 9.3600e-003   |                | 9.3600e-003   | 9.3600e-003   | 0.0000        | 2.7766          | 2.7766          | 2.7300e-003        | 0.0000             | 2.8447          |
| <b>Total</b>          | <b>1.3407</b> | <b>0.1593</b> | <b>1.7637</b> | <b>9.8000e-004</b> |               | <b>0.0206</b> | <b>0.0206</b> |                | <b>0.0206</b> | <b>0.0206</b> | <b>0.0000</b> | <b>164.4023</b> | <b>164.4023</b> | <b>5.8300e-003</b> | <b>2.9600e-003</b> | <b>165.4309</b> |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

|             | Total CO2 | CH4    | N2O         | CO2e     |
|-------------|-----------|--------|-------------|----------|
| Category    | MT/yr     |        |             |          |
| Mitigated   | 86.2709   | 0.3906 | 9.8300e-003 | 98.9645  |
| Unmitigated | 101.9305  | 0.4880 | 0.0122      | 117.7770 |

7.2 Water by Land Use

Unmitigated

|                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|--------------------|-----------|--------|--------|----------|
| Land Use            | Mgal               | MT/yr     |        |        |          |
| Apartments Low Rise | 14.8551 / 9.36518  | 101.9305  | 0.4880 | 0.0122 | 117.7770 |
| Parking Lot         | 0 / 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                    | 101.9305  | 0.4880 | 0.0122 | 117.7770 |

Mitigated

|  | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|-----|------|
|--|--------------------|-----------|-----|-----|------|

| Land Use            | Mgal              | MT/yr          |               |                    |                |
|---------------------|-------------------|----------------|---------------|--------------------|----------------|
| Apartments Low Rise | 11.8841 / 8.79391 | 86.2709        | 0.3906        | 9.8300e-003        | 98.9645        |
| Parking Lot         | 0 / 0             | 0.0000         | 0.0000        | 0.0000             | 0.0000         |
| <b>Total</b>        |                   | <b>86.2709</b> | <b>0.3906</b> | <b>9.8300e-003</b> | <b>98.9645</b> |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 10.6449   | 0.6291 | 0.0000 | 26.3722 |
| Unmitigated | 21.2897   | 1.2582 | 0.0000 | 52.7443 |

8.2 Waste by Land Use

Unmitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |

|                     |        |                |               |               |                |
|---------------------|--------|----------------|---------------|---------------|----------------|
| Apartments Low Rise | 104.88 | 21.2897        | 1.2582        | 0.0000        | 52.7443        |
| Parking Lot         | 0      | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |        | <b>21.2897</b> | <b>1.2582</b> | <b>0.0000</b> | <b>52.7443</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use            | tons           | MT/yr          |               |               |                |
| Apartments Low Rise | 52.44          | 10.6449        | 0.6291        | 0.0000        | 26.3722        |
| Parking Lot         | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |                | <b>10.6449</b> | <b>0.6291</b> | <b>0.0000</b> | <b>26.3722</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Encinitas HE - #3 - San Diego County, Summer

## Encinitas HE - #3

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 228.00 | Dwelling Unit | 7.60        | 228,000.00         | 652        |
| Parking Lot         | 627.00 | Space         | 5.64        | 250,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       | <b>Operational Year</b>             | 2020  |                                     |       |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 3 = approx 7.6ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 14.25         | 7.60       |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 55.6612 | 54.5750 | 33.9956 | 0.0761 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,616.5831 | 7,616.5831 | 1.9482 | 0.0000 | 7,638.9254 |
| Maximum | 55.6612 | 54.5750 | 33.9956 | 0.0761 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,616.5831 | 7,616.5831 | 1.9482 | 0.0000 | 7,638.9254 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 55.6612 | 54.5750 | 33.9956 | 0.0761 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,616.5831 | 7,616.5831 | 1.9482 | 0.0000 | 7,638.9254 |
| Maximum | 55.6612 | 54.5750 | 33.9956 | 0.0761 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,616.5831 | 7,616.5831 | 1.9482 | 0.0000 | 7,638.9254 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 356.4809 | 7.0331  | 449.6535 | 0.7813      |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366  | 9,021.4912  | 5.8767 | 0.4981 | 9,316.8303  |
| Energy   | 0.0756   | 0.6462  | 0.2750   | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |            | 824.9514    | 824.9514    | 0.0158 | 0.0151 | 829.8537    |
| Mobile   | 3.1172   | 12.8440 | 36.5999  | 0.1213      | 9.8845        | 0.1165       | 10.0010    | 2.6420         | 0.1093        | 2.7514      |            | 12,300.1408 | 12,300.1408 | 0.6451 |        | 12,316.2670 |
| Total    | 359.6738 | 20.5233 | 486.5283 | 0.9067      | 9.8845        | 60.6633      | 70.5478    | 2.6420         | 60.6561       | 63.2981     | 6,331.9546 | 15,814.6288 | 22,146.5834 | 6.5376 | 0.5132 | 22,462.9510 |

Mitigated Operational



|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |               |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.9492         | 3.6228         | 20.3857        | 0.0227        |               | 0.3792        | 0.3792         |                | 0.3792        | 0.3792        | 0.0000        | 4,379.4189         | 4,379.4189         | 0.1167        | 0.0797        | 4,406.0764         |
| Energy       | 0.0756         | 0.6462         | 0.2750         | 4.1200e-003   |               | 0.0523        | 0.0523         |                | 0.0523        | 0.0523        |               | 824.9514           | 824.9514           | 0.0158        | 0.0151        | 829.8537           |
| Mobile       | 3.1172         | 12.8440        | 36.5999        | 0.1213        | 9.8845        | 0.1165        | 10.0010        | 2.6420         | 0.1093        | 2.7514        |               | 12,300.1408        | 12,300.1408        | 0.6451        |               | 12,316.2670        |
| <b>Total</b> | <b>11.1421</b> | <b>17.1130</b> | <b>57.2606</b> | <b>0.1481</b> | <b>9.8845</b> | <b>0.5480</b> | <b>10.4325</b> | <b>2.6420</b>  | <b>0.5408</b> | <b>3.1828</b> | <b>0.0000</b> | <b>17,504.5112</b> | <b>17,504.5112</b> | <b>0.7775</b> | <b>0.0948</b> | <b>17,552.1970</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>96.90</b> | <b>16.62</b> | <b>88.23</b> | <b>83.67</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-10.69</b> | <b>20.96</b> | <b>88.11</b> | <b>81.53</b> | <b>21.86</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 3/25/2019  | 5             | 30       |                   |
| 4            | Building Construction | Building Construction | 4/23/2019  | 12/31/2019 | 5             | 181      |                   |
| 5            | Paving                | Paving                | 3/26/2019  | 4/22/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/16/2019  | 12/31/2019 | 5             | 142      |                   |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.64**

Residential Indoor: 461,700; Residential Outdoor: 153,900; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 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       | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 270.00 | 65.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 54.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |                    |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|--------------------|--|-----------------|
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 130.5300        | 130.5300        | 4.1700e-003        |  | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b> | <b>8.1000e-004</b> | <b>0.0335</b> |  | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |  | <b>130.6342</b> |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.7949</b> | <b>1.7949</b> | <b>0.0000</b>  | <b>1.6697</b> | <b>1.6697</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168 | 8.8000e-004 | 0.1177 | 0.0311 | 8.1000e-004 | 0.0319 |  | 130.5300 | 130.5300 | 4.1700e-003 |  | 130.6342 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |
| Total    | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0707        | 0.0493        | 0.5569        | 1.5700e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 156.6359        | 156.6359        | 5.0000e-003        |     | 156.7610        |
| <b>Total</b> | <b>0.0707</b> | <b>0.0493</b> | <b>0.5569</b> | <b>1.5700e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>156.6359</b> | <b>156.6359</b> | <b>5.0000e-003</b> |     | <b>156.7610</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site



|          | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Hauling  | 0.0000 | 0.0000 | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 |     | 0.0000     |
| Vendor   | 0.2992 | 8.0592 | 2.0806  | 0.0180 | 0.4400        | 0.0561       | 0.4961     | 0.1267         | 0.0536        | 0.1803      |          | 1,924.1081 | 1,924.1081 | 0.1486 |     | 1,927.8219 |
| Worker   | 1.0602 | 0.7399 | 8.3541  | 0.0236 | 2.2180        | 0.0158       | 2.2338     | 0.5883         | 0.0146        | 0.6029      |          | 2,349.5390 | 2,349.5390 | 0.0750 |     | 2,351.4147 |
| Total    | 1.3593 | 8.7991 | 10.4348 | 0.0415 | 2.6580        | 0.0719       | 2.7299     | 0.7150         | 0.0682        | 0.7832      |          | 4,273.6471 | 4,273.6471 | 0.2236 |     | 4,279.2366 |

Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |               |                |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.2992        | 8.0592        | 2.0806         | 0.0180        | 0.4212        | 0.0561        | 0.4773        | 0.1221        | 0.0536        | 0.1757        |  | 1,924.1081        | 1,924.1081        | 0.1486        |  | 1,927.8219        |
| Worker       | 1.0602        | 0.7399        | 8.3541         | 0.0236        | 2.1023        | 0.0158        | 2.1181        | 0.5599        | 0.0146        | 0.5745        |  | 2,349.5390        | 2,349.5390        | 0.0750        |  | 2,351.4147        |
| <b>Total</b> | <b>1.3593</b> | <b>8.7991</b> | <b>10.4348</b> | <b>0.0415</b> | <b>2.5235</b> | <b>0.0719</b> | <b>2.5954</b> | <b>0.6820</b> | <b>0.0682</b> | <b>0.7502</b> |  | <b>4,273.6471</b> | <b>4,273.6471</b> | <b>0.2236</b> |  | <b>4,279.2366</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.7388        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.1933</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 130.5300        | 130.5300        | 4.1700e-003        |     | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |     | <b>130.6342</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.7388 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.1933 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |
| Total    | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 51.4622        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>51.7287</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2120        | 0.1480        | 1.6708        | 4.7200e-003        | 0.4436        | 3.1600e-003        | 0.4468        | 0.1177         | 2.9100e-003        | 0.1206        |          | 469.9078        | 469.9078        | 0.0150        |     | 470.2829        |
| <b>Total</b> | <b>0.2120</b> | <b>0.1480</b> | <b>1.6708</b> | <b>4.7200e-003</b> | <b>0.4436</b> | <b>3.1600e-003</b> | <b>0.4468</b> | <b>0.1177</b>  | <b>2.9100e-003</b> | <b>0.1206</b> |          | <b>469.9078</b> | <b>469.9078</b> | <b>0.0150</b> |     | <b>470.2829</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 51.4622 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>51.7287</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2120        | 0.1480        | 1.6708        | 4.7200e-003        | 0.4205        | 3.1600e-003        | 0.4236        | 0.1120         | 2.9100e-003        | 0.1149        |          | 469.9078        | 469.9078        | 0.0150        |     | 470.2829        |
| <b>Total</b> | <b>0.2120</b> | <b>0.1480</b> | <b>1.6708</b> | <b>4.7200e-003</b> | <b>0.4205</b> | <b>3.1600e-003</b> | <b>0.4236</b> | <b>0.1120</b>  | <b>2.9100e-003</b> | <b>0.1149</b> |          | <b>469.9078</b> | <b>469.9078</b> | <b>0.0150</b> |     | <b>470.2829</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 3.1172 | 12.8440 | 36.5999 | 0.1213 | 9.8845        | 0.1165       | 10.0010    | 2.6420         | 0.1093        | 2.7514      |          | 12,300.1408 | 12,300.1408 | 0.6451 |     | 12,316.2670 |

|             |        |         |         |        |        |        |         |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 3.1172 | 12.8440 | 36.5999 | 0.1213 | 9.8845 | 0.1165 | 10.0010 | 2.6420 | 0.1093 | 2.7514 |  | 12,300.1408 | 12,300.1408 | 0.6451 |  | 12,316.2670 |
|-------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,502.52                | 1,632.48 | 1383.96  | 4,294,800   | 4,294,800  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,502.52                | 1,632.48 | 1,383.96 | 4,294,800   | 4,294,800  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |          |          |        |        |          |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--------|----------|
| NaturalGas Mitigated   | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |  | 0.0523 | 0.0523 |  | 0.0523 | 0.0523 |        | 824.9514 | 824.9514 | 0.0158 | 0.0151 | 829.8537 |
| NaturalGas Unmitigated | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |  | 0.0523 | 0.0523 |  | 0.0523 | 0.0523 |        | 824.9514 | 824.9514 | 0.0158 | 0.0151 | 829.8537 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 7012.09        | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 7.01209        | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 7.9492   | 3.6228 | 20.3857  | 0.0227 |               | 0.3792       | 0.3792     |                | 0.3792        | 0.3792      | 0.0000     | 4,379.4189 | 4,379.4189 | 0.1167 | 0.0797 | 4,406.0764 |
| Unmitigated | 356.4809 | 7.0331 | 449.6535 | 0.7813 |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366 | 9,021.4912 | 5.8767 | 0.4981 | 9,316.8303 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Architectural Coating | 2.0021   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.9680   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 348.9301 | 6.8142 | 430.7163 | 0.7803      |               | 60.3905      | 60.3905    |                | 60.3905       | 60.3905     | 6,331.9546 | 2,655.5294 | 8,987.4840 | 5.8433 | 0.4981 | 9,281.9883 |
| Landscaping           | 0.5808   | 0.2189 | 18.9372  | 1.0000e-003 |               | 0.1040       | 0.1040     |                | 0.1040        | 0.1040      |            | 34.0072    | 34.0072    | 0.0334 |        | 34.8420    |
| Total                 | 356.4809 | 7.0331 | 449.6535 | 0.7813      |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366 | 9,021.4912 | 5.8767 | 0.4981 | 9,316.8303 |



Mitigated

|                       | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.0021 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.9680 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.3983 | 3.4039 | 1.4485  | 0.0217      |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 4,345.4118 | 4,345.4118 | 0.0833 | 0.0797 | 4,371.2344 |
| Landscaping           | 0.5808 | 0.2189 | 18.9372 | 1.0000e-003 |               | 0.1040       | 0.1040     |                | 0.1040        | 0.1040      |          | 34.0072    | 34.0072    | 0.0334 |        | 34.8420    |
| Total                 | 7.9492 | 3.6228 | 20.3857 | 0.0227      |               | 0.3792       | 0.3792     |                | 0.3792        | 0.3792      | 0.0000   | 4,379.4189 | 4,379.4189 | 0.1167 | 0.0797 | 4,406.0764 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - #3 - San Diego County, Winter

## Encinitas HE - #3

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 228.00 | Dwelling Unit | 7.60        | 228,000.00         | 652        |
| Parking Lot         | 627.00 | Space         | 5.64        | 250,800.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       |                                     |       | <b>Operational Year</b>             | 2020  |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 3 = approx 7.6ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 300.00        | 181.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 142.00     |
| tblConstructionPhase   | PhaseEndDate                    | 6/15/2020     | 4/22/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 5/18/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 7/13/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 5/19/2020     | 3/26/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/26/2019     | 4/23/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 6/16/2020     | 6/16/2019  |
| tblLandUse             | LotAcreage                      | 14.25         | 7.60       |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 55.8407 | 54.5817 | 33.9616 | 0.0740 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,395.0804 | 7,395.0804 | 1.9479 | 0.0000 | 7,417.5439 |
| Maximum | 55.8407 | 54.5817 | 33.9616 | 0.0740 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 7,395.0804 | 7,395.0804 | 1.9479 | 0.0000 | 7,417.5439 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 55.8407 | 54.5817 | 33.9616 | 0.0740 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,395.0804 | 7,395.0804 | 1.9479 | 0.0000 | 7,417.5439 |
| Maximum | 55.8407 | 54.5817 | 33.9616 | 0.0740 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 7,395.0804 | 7,395.0804 | 1.9479 | 0.0000 | 7,417.5439 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 356.4809 | 7.0331  | 449.6535 | 0.7813      |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366  | 9,021.4912  | 5.8767 | 0.4981 | 9,316.8303  |
| Energy   | 0.0756   | 0.6462  | 0.2750   | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |            | 824.9514    | 824.9514    | 0.0158 | 0.0151 | 829.8537    |
| Mobile   | 3.0336   | 13.2425 | 36.0222  | 0.1149      | 9.8845        | 0.1173       | 10.0018    | 2.6420         | 0.1101        | 2.7521      |            | 11,663.5539 | 11,663.5539 | 0.6467 |        | 11,679.7210 |
| Total    | 359.5901 | 20.9218 | 485.9506 | 0.9004      | 9.8845        | 60.6641      | 70.5486    | 2.6420         | 60.6568       | 63.2989     | 6,331.9546 | 15,178.0418 | 21,509.9964 | 6.5392 | 0.5132 | 21,826.4049 |

Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |               |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.9492         | 3.6228         | 20.3857        | 0.0227        |               | 0.3792        | 0.3792         |                | 0.3792        | 0.3792        | 0.0000        | 4,379.4189         | 4,379.4189         | 0.1167        | 0.0797        | 4,406.0764         |
| Energy       | 0.0756         | 0.6462         | 0.2750         | 4.1200e-003   |               | 0.0523        | 0.0523         |                | 0.0523        | 0.0523        |               | 824.9514           | 824.9514           | 0.0158        | 0.0151        | 829.8537           |
| Mobile       | 3.0336         | 13.2425        | 36.0222        | 0.1149        | 9.8845        | 0.1173        | 10.0018        | 2.6420         | 0.1101        | 2.7521        |               | 11,663.5539        | 11,663.5539        | 0.6467        |               | 11,679.7210        |
| <b>Total</b> | <b>11.0584</b> | <b>17.5115</b> | <b>56.6829</b> | <b>0.1418</b> | <b>9.8845</b> | <b>0.5487</b> | <b>10.4332</b> | <b>2.6420</b>  | <b>0.5415</b> | <b>3.1836</b> | <b>0.0000</b> | <b>16,867.9242</b> | <b>16,867.9242</b> | <b>0.7792</b> | <b>0.0948</b> | <b>16,915.6510</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>96.92</b> | <b>16.30</b> | <b>88.34</b> | <b>84.25</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-11.13</b> | <b>21.58</b> | <b>88.08</b> | <b>81.53</b> | <b>22.50</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 3/25/2019  | 5             | 30       |                   |
| 4            | Building Construction | Building Construction | 4/23/2019  | 12/31/2019 | 5             | 181      |                   |
| 5            | Paving                | Paving                | 3/26/2019  | 4/22/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/16/2019  | 12/31/2019 | 5             | 142      |                   |

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 5.64**

Residential Indoor: 461,700; Residential Outdoor: 153,900; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 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       | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 270.00 | 65.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 54.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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



|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |                    |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|--------------------|--|-----------------|
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000             |  | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 122.5371        | 122.5371        | 3.9500e-003        |  | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b> | <b>8.1000e-004</b> | <b>0.0335</b> |  | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-003</b> |  | <b>122.6359</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.7949</b> | <b>1.7949</b> | <b>0.0000</b>  | <b>1.6697</b> | <b>1.6697</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

**Mitigated Construction Off-Site**

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168 | 8.8000e-004 | 0.1177 | 0.0311 | 8.1000e-004 | 0.0319 |  | 122.5371 | 122.5371 | 3.9500e-003 |  | 122.6359 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |
| Total    | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0799        | 0.0554        | 0.5263        | 1.4800e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 147.0445        | 147.0445        | 4.7400e-003        |     | 147.1631        |
| <b>Total</b> | <b>0.0799</b> | <b>0.0554</b> | <b>0.5263</b> | <b>1.4800e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>147.0445</b> | <b>147.0445</b> | <b>4.7400e-003</b> |     | <b>147.1631</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.3120        | 8.0657        | 2.3069         | 0.0175        | 0.4400        | 0.0571        | 0.4971        | 0.1267         | 0.0546        | 0.1813        |          | 1,875.2516        | 1,875.2516        | 0.1580        |     | 1,879.2024        |
| Worker       | 1.1990        | 0.8309        | 7.8946         | 0.0222        | 2.2180        | 0.0158        | 2.2338        | 0.5883         | 0.0146        | 0.6029        |          | 2,205.6671        | 2,205.6671        | 0.0712        |     | 2,207.4464        |
| <b>Total</b> | <b>1.5111</b> | <b>8.8966</b> | <b>10.2015</b> | <b>0.0397</b> | <b>2.6580</b> | <b>0.0729</b> | <b>2.7309</b> | <b>0.7150</b>  | <b>0.0692</b> | <b>0.7841</b> |          | <b>4,080.9188</b> | <b>4,080.9188</b> | <b>0.2292</b> |     | <b>4,086.6488</b> |

Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.5802        | 2,591.5802        | 0.6313        |     | 2,607.3635        |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.5802</b> | <b>2,591.5802</b> | <b>0.6313</b> |     | <b>2,607.3635</b> |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |               |                |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.3120        | 8.0657        | 2.3069         | 0.0175        | 0.4212        | 0.0571        | 0.4783        | 0.1221        | 0.0546        | 0.1766        |  | 1,875.2516        | 1,875.2516        | 0.1580        |  | 1,879.2024        |
| Worker       | 1.1990        | 0.8309        | 7.8946         | 0.0222        | 2.1023        | 0.0158        | 2.1181        | 0.5599        | 0.0146        | 0.5745        |  | 2,205.6671        | 2,205.6671        | 0.0712        |  | 2,207.4464        |
| <b>Total</b> | <b>1.5111</b> | <b>8.8966</b> | <b>10.2015</b> | <b>0.0397</b> | <b>2.5235</b> | <b>0.0729</b> | <b>2.5964</b> | <b>0.6820</b> | <b>0.0692</b> | <b>0.7511</b> |  | <b>4,080.9188</b> | <b>4,080.9188</b> | <b>0.2292</b> |  | <b>4,086.6488</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.7388        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.1933</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 122.5371        | 122.5371        | 3.9500e-003        |     | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-003</b> |     | <b>122.6359</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.7388 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.1933 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |
| Total    | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site



|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 51.4622        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>51.7287</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2398        | 0.1662        | 1.5789        | 4.4300e-003        | 0.4436        | 3.1600e-003        | 0.4468        | 0.1177         | 2.9100e-003        | 0.1206        |          | 441.1334        | 441.1334        | 0.0142        |     | 441.4893        |
| <b>Total</b> | <b>0.2398</b> | <b>0.1662</b> | <b>1.5789</b> | <b>4.4300e-003</b> | <b>0.4436</b> | <b>3.1600e-003</b> | <b>0.4468</b> | <b>0.1177</b>  | <b>2.9100e-003</b> | <b>0.1206</b> |          | <b>441.1334</b> | <b>441.1334</b> | <b>0.0142</b> |     | <b>441.4893</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 51.4622 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>51.7287</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2398        | 0.1662        | 1.5789        | 4.4300e-003        | 0.4205        | 3.1600e-003        | 0.4236        | 0.1120         | 2.9100e-003        | 0.1149        |          | 441.1334        | 441.1334        | 0.0142        |     | 441.4893        |
| <b>Total</b> | <b>0.2398</b> | <b>0.1662</b> | <b>1.5789</b> | <b>4.4300e-003</b> | <b>0.4205</b> | <b>3.1600e-003</b> | <b>0.4236</b> | <b>0.1120</b>  | <b>2.9100e-003</b> | <b>0.1149</b> |          | <b>441.1334</b> | <b>441.1334</b> | <b>0.0142</b> |     | <b>441.4893</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 3.0336 | 13.2425 | 36.0222 | 0.1149 | 9.8845        | 0.1173       | 10.0018    | 2.6420         | 0.1101        | 2.7521      |          | 11,663.5539 | 11,663.5539 | 0.6467 |     | 11,679.7210 |

|             |        |         |         |        |        |        |         |        |        |        |  |                 |                 |        |  |                 |
|-------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|-----------------|-----------------|--------|--|-----------------|
| Unmitigated | 3.0336 | 13.2425 | 36.0222 | 0.1149 | 9.8845 | 0.1173 | 10.0018 | 2.6420 | 0.1101 | 2.7521 |  | 11,663.55<br>39 | 11,663.553<br>9 | 0.6467 |  | 11,679.72<br>10 |
|-------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|-----------------|-----------------|--------|--|-----------------|

### 4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,502.52                | 1,632.48 | 1383.96  | 4,294,800   | 4,294,800  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,502.52                | 1,632.48 | 1,383.96 | 4,294,800   | 4,294,800  |

### 4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

### 4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |          |          |        |        |          |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--------|----------|
| NaturalGas Mitigated   | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |  | 0.0523 | 0.0523 |  | 0.0523 | 0.0523 |        | 824.9514 | 824.9514 | 0.0158 | 0.0151 | 829.8537 |
| NaturalGas Unmitigated | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |  | 0.0523 | 0.0523 |  | 0.0523 | 0.0523 |        | 824.9514 | 824.9514 | 0.0158 | 0.0151 | 829.8537 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 7012.09        | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Apartments Low Rise | 7.01209        | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                | 0.0756 | 0.6462 | 0.2750 | 4.1200e-003 |               | 0.0523       | 0.0523     |                | 0.0523        | 0.0523      |          | 824.9514  | 824.9514  | 0.0158 | 0.0151 | 829.8537 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 7.9492   | 3.6228 | 20.3857  | 0.0227 |               | 0.3792       | 0.3792     |                | 0.3792        | 0.3792      | 0.0000     | 4,379.4189 | 4,379.4189 | 0.1167 | 0.0797 | 4,406.0764 |
| Unmitigated | 356.4809 | 7.0331 | 449.6535 | 0.7813 |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366 | 9,021.4912 | 5.8767 | 0.4981 | 9,316.8303 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Architectural Coating | 2.0021   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.9680   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 348.9301 | 6.8142 | 430.7163 | 0.7803      |               | 60.3905      | 60.3905    |                | 60.3905       | 60.3905     | 6,331.9546 | 2,655.5294 | 8,987.4840 | 5.8433 | 0.4981 | 9,281.9883 |
| Landscaping           | 0.5808   | 0.2189 | 18.9372  | 1.0000e-003 |               | 0.1040       | 0.1040     |                | 0.1040        | 0.1040      |            | 34.0072    | 34.0072    | 0.0334 |        | 34.8420    |
| Total                 | 356.4809 | 7.0331 | 449.6535 | 0.7813      |               | 60.4945      | 60.4945    |                | 60.4945       | 60.4945     | 6,331.9546 | 2,689.5366 | 9,021.4912 | 5.8767 | 0.4981 | 9,316.8303 |

Mitigated

|                       | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.0021 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 4.9680 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.3983 | 3.4039 | 1.4485  | 0.0217      |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 4,345.4118 | 4,345.4118 | 0.0833 | 0.0797 | 4,371.2344 |
| Landscaping           | 0.5808 | 0.2189 | 18.9372 | 1.0000e-003 |               | 0.1040       | 0.1040     |                | 0.1040        | 0.1040      |          | 34.0072    | 34.0072    | 0.0334 |        | 34.8420    |
| Total                 | 7.9492 | 3.6228 | 20.3857 | 0.0227      |               | 0.3792       | 0.3792     |                | 0.3792        | 0.3792      | 0.0000   | 4,379.4189 | 4,379.4189 | 0.1167 | 0.0797 | 4,406.0764 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

#### Boilers

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

#### User Defined Equipment

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

### 11.0 Vegetation

Encinitas HE - #9 - San Diego County, Annual

**Encinitas HE - #9**  
**San Diego County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 21.50       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

**1.2 Other Project Characteristics**

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       |                                     |       | <b>Operational Year</b>             | 2020  |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 9 = approx 21.5 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 9 = 21.5 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -



Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 35.00         | 20.00      |
| tblConstructionPhase   | NumDays                         | 440.00        | 146.00     |
| tblConstructionPhase   | NumDays                         | 35.00         | 126.00     |
| tblConstructionPhase   | PhaseEndDate                    | 3/8/2021      | 6/10/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 1/18/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 4/26/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 1/19/2021     | 5/14/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 5/14/2019     | 6/11/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/9/2021      | 7/9/2019   |
| tblLandUse             | LotAcreage                      | 18.50         | 21.50      |

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    | 5.3228  | 5.3209 | 4.0255 | 0.0101 | 0.9909        | 0.2237       | 1.2147     | 0.3103         | 0.2089        | 0.5192      | 0.0000   | 923.7151  | 923.7151  | 0.1450 | 0.0000 | 927.3394 |
| Maximum | 5.3228  | 5.3209 | 4.0255 | 0.0101 | 0.9909        | 0.2237       | 1.2147     | 0.3103         | 0.2089        | 0.5192      | 0.0000   | 923.7151  | 923.7151  | 0.1450 | 0.0000 | 927.3394 |

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    | 5.3228  | 5.3209 | 4.0255 | 0.0101 | 0.5872        | 0.2237       | 0.8109     | 0.1771         | 0.2089        | 0.3860      | 0.0000   | 923.7146  | 923.7146  | 0.1450 | 0.0000 | 927.3389 |
| Maximum | 5.3228  | 5.3209 | 4.0255 | 0.0101 | 0.5872        | 0.2237       | 0.8109     | 0.1771         | 0.2089        | 0.3860      | 0.0000   | 923.7146  | 923.7146  | 0.1450 | 0.0000 | 927.3389 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 40.75         | 0.00         | 33.24      | 42.93          | 0.00          | 25.66       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019 | 1.9465                                       | 1.9465                                     |
| 2       | 4-1-2019   | 6-30-2019 | 1.3519                                       | 1.3519                                     |
| 3       | 7-1-2019   | 9-30-2019 | 3.5419                                       | 3.5419                                     |
|         |            | Highest   | 3.5419                                       | 3.5419                                     |

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     | 20.2922 | 0.3883 | 25.1389 | 0.0417      |               | 3.2266       | 3.2266     |                | 3.2266        | 3.2266      | 305.7555 | 131.8341  | 437.5895  | 0.2857 | 0.0241      | 451.8990 |
| Energy   | 0.0179  | 0.1531 | 0.0652  | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 625.1005  | 625.1005  | 0.0214 | 6.9800e-003 | 627.7161 |

|              |                |               |                |               |               |               |               |               |               |               |                 |                   |                   |               |               |                   |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Mobile       | 0.6442         | 2.8904        | 7.7536         | 0.0253        | 2.1014        | 0.0254        | 2.1268        | 0.5628        | 0.0238        | 0.5866        | 0.0000          | 2,324.8353        | 2,324.8353        | 0.1265        | 0.0000        | 2,327.9965        |
| Waste        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 27.6393         | 0.0000            | 27.6393           | 1.6334        | 0.0000        | 68.4751           |
| Water        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 6.1184          | 126.2124          | 132.3308          | 0.6335        | 0.0159        | 152.9034          |
| <b>Total</b> | <b>20.9543</b> | <b>3.4318</b> | <b>32.9576</b> | <b>0.0679</b> | <b>2.1014</b> | <b>3.2644</b> | <b>5.3658</b> | <b>0.5628</b> | <b>3.2628</b> | <b>3.8256</b> | <b>339.5132</b> | <b>3,207.9823</b> | <b>3,547.4955</b> | <b>2.7005</b> | <b>0.0469</b> | <b>3,628.9900</b> |

Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.7405        | 0.2068        | 2.2898         | 1.2700e-003   |               | 0.0268        | 0.0268        |                | 0.0268        | 0.0268        | 0.0000         | 213.4346          | 213.4346          | 7.5600e-003   | 3.8500e-003   | 214.7700          |
| Energy       | 0.0179        | 0.1531        | 0.0652         | 9.8000e-004   |               | 0.0124        | 0.0124        |                | 0.0124        | 0.0124        | 0.0000         | 625.1005          | 625.1005          | 0.0214        | 6.9800e-003   | 627.7161          |
| Mobile       | 0.6442        | 2.8904        | 7.7536         | 0.0253        | 2.1014        | 0.0254        | 2.1268        | 0.5628         | 0.0238        | 0.5866        | 0.0000         | 2,324.8353        | 2,324.8353        | 0.1265        | 0.0000        | 2,327.9965        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 13.8196        | 0.0000            | 13.8196           | 0.8167        | 0.0000        | 34.2375           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.8947         | 107.1061          | 112.0008          | 0.5071        | 0.0128        | 128.4803          |
| <b>Total</b> | <b>2.4026</b> | <b>3.2503</b> | <b>10.1085</b> | <b>0.0275</b> | <b>2.1014</b> | <b>0.0646</b> | <b>2.1660</b> | <b>0.5628</b>  | <b>0.0630</b> | <b>0.6258</b> | <b>18.7144</b> | <b>3,270.4765</b> | <b>3,289.1908</b> | <b>1.4792</b> | <b>0.0236</b> | <b>3,333.2004</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 | 88.53 | 5.29 | 69.33 | 59.49 | 0.00          | 98.02        | 59.63      | 0.00           | 98.07         | 83.64       | 94.49    | -1.95    | 7.28      | 45.22 | 49.72 | 8.15 |

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            | 1/1/2019  | 2/11/2019  | 5 | 30  |
| 2 | Site Preparation      | Site Preparation      | 2/12/2019 | 3/11/2019  | 5 | 20  |
| 3 | Grading               | Grading               | 3/12/2019 | 5/13/2019  | 5 | 45  |
| 4 | Building Construction | Building Construction | 6/11/2019 | 12/31/2019 | 5 | 146 |
| 5 | Paving                | Paving                | 5/14/2019 | 6/10/2019  | 5 | 20  |
| 6 | Architectural Coating | Architectural Coating | 7/9/2019  | 12/31/2019 | 5 | 126 |

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

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 7.33**

**Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |

|                       |                  |   |      |     |      |
|-----------------------|------------------|---|------|-----|------|
| Paving                | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving                | Rollers          | 2 | 8.00 | 80  | 0.38 |
| 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            | 6                       | 15.00              | 0.00               | 2,757.00            | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 350.00             | 85.00              | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 70.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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    |           |           |        |        |        |
| Fugitive Dust |         |     |    |     | 0.3020        | 0.0000       | 0.3020     | 0.0457         | 0.0000        | 0.0457      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

|              |               |               |               |                    |               |               |               |               |               |               |               |                |                |               |               |                |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Off-Road     | 0.0527        | 0.5367        | 0.3309        | 5.8000e-004        |               | 0.0269        | 0.0269        |               | 0.0250        | 0.0250        | 0.0000        | 51.9395        | 51.9395        | 0.0145        | 0.0000        | 52.3007        |
| <b>Total</b> | <b>0.0527</b> | <b>0.5367</b> | <b>0.3309</b> | <b>5.8000e-004</b> | <b>0.3020</b> | <b>0.0269</b> | <b>0.3289</b> | <b>0.0457</b> | <b>0.0250</b> | <b>0.0708</b> | <b>0.0000</b> | <b>51.9395</b> | <b>51.9395</b> | <b>0.0145</b> | <b>0.0000</b> | <b>52.3007</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      | 0.0121        | 0.4224        | 0.0922        | 1.0900e-003        | 0.0236        | 1.5800e-003        | 0.0252        | 6.4800e-003        | 1.5100e-003        | 7.9900e-003        | 0.0000        | 107.4671        | 107.4671        | 9.7300e-003        | 0.0000        | 107.7104        |
| 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       | 8.9000e-004   | 6.8000e-004   | 6.5800e-003   | 2.0000e-005        | 1.8000e-003   | 1.0000e-005        | 1.8200e-003   | 4.8000e-004        | 1.0000e-005        | 4.9000e-004        | 0.0000        | 1.6841          | 1.6841          | 5.0000e-005        | 0.0000        | 1.6855          |
| <b>Total</b> | <b>0.0130</b> | <b>0.4231</b> | <b>0.0987</b> | <b>1.1100e-003</b> | <b>0.0254</b> | <b>1.5900e-003</b> | <b>0.0270</b> | <b>6.9600e-003</b> | <b>1.5200e-003</b> | <b>8.4800e-003</b> | <b>0.0000</b> | <b>109.1512</b> | <b>109.1512</b> | <b>9.7800e-003</b> | <b>0.0000</b> | <b>109.3958</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1291        | 0.0000        | 0.1291        | 0.0196         | 0.0000        | 0.0196        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0527        | 0.5367        | 0.3309        | 5.8000e-004        |               | 0.0269        | 0.0269        |                | 0.0250        | 0.0250        | 0.0000        | 51.9394        | 51.9394        | 0.0145        | 0.0000        | 52.3007        |
| <b>Total</b>  | <b>0.0527</b> | <b>0.5367</b> | <b>0.3309</b> | <b>5.8000e-004</b> | <b>0.1291</b> | <b>0.0269</b> | <b>0.1560</b> | <b>0.0196</b>  | <b>0.0250</b> | <b>0.0446</b> | <b>0.0000</b> | <b>51.9394</b> | <b>51.9394</b> | <b>0.0145</b> | <b>0.0000</b> | <b>52.3007</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  | 0.0121      | 0.4224      | 0.0922      | 1.0900e-003 | 0.0225        | 1.5800e-003  | 0.0241      | 6.2200e-003    | 1.5100e-003   | 7.7300e-003 | 0.0000   | 107.4671  | 107.4671  | 9.7300e-003 | 0.0000 | 107.7104 |
| 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   | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.7100e-003   | 1.0000e-005  | 1.7200e-003 | 4.6000e-004    | 1.0000e-005   | 4.7000e-004 | 0.0000   | 1.6841    | 1.6841    | 5.0000e-005 | 0.0000 | 1.6855   |
| Total    | 0.0130      | 0.4231      | 0.0987      | 1.1100e-003 | 0.0242        | 1.5900e-003  | 0.0258      | 6.6800e-003    | 1.5200e-003   | 8.2000e-003 | 0.0000   | 109.1512  | 109.1512  | 9.7800e-003 | 0.0000 | 109.3958 |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category      | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |         |
| Fugitive Dust |         |        |        |             | 0.1807        | 0.0000       | 0.1807     | 0.0993         | 0.0000        | 0.0993      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Off-Road      | 0.0434  | 0.4557 | 0.2206 | 3.8000e-004 |               | 0.0239       | 0.0239     |                | 0.0220        | 0.0220      | 0.0000   | 34.1687   | 34.1687   | 0.0108 | 0.0000 | 34.4390 |
| Total         | 0.0434  | 0.4557 | 0.2206 | 3.8000e-004 | 0.1807        | 0.0239       | 0.2046     | 0.0993         | 0.0220        | 0.1213      | 0.0000   | 34.1687   | 34.1687   | 0.0108 | 0.0000 | 34.4390 |

#### 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|





|              |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Worker       | 7.1000e-004        | 5.4000e-004        | 5.2700e-003        | 1.0000e-005        | 1.3700e-003        | 1.0000e-005        | 1.3800e-003        | 3.7000e-004        | 1.0000e-005        | 3.7000e-004        | 0.0000        | 1.3473        | 1.3473        | 4.0000e-005        | 0.0000        | 1.3484        |
| <b>Total</b> | <b>7.1000e-004</b> | <b>5.4000e-004</b> | <b>5.2700e-003</b> | <b>1.0000e-005</b> | <b>1.3700e-003</b> | <b>1.0000e-005</b> | <b>1.3800e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>1.3473</b> | <b>1.3473</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.3484</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.1952        | 0.0000        | 0.1952        | 0.0809         | 0.0000        | 0.0809        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1066        | 1.2267        | 0.7510        | 1.4000e-003        |               | 0.0536        | 0.0536        |                | 0.0493        | 0.0493        | 0.0000        | 125.3280        | 125.3280        | 0.0397        | 0.0000        | 126.3193        |
| <b>Total</b>  | <b>0.1066</b> | <b>1.2267</b> | <b>0.7510</b> | <b>1.4000e-003</b> | <b>0.1952</b> | <b>0.0536</b> | <b>0.2488</b> | <b>0.0809</b>  | <b>0.0493</b> | <b>0.1302</b> | <b>0.0000</b> | <b>125.3280</b> | <b>125.3280</b> | <b>0.0397</b> | <b>0.0000</b> | <b>126.3193</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       | 1.7700e-003        | 1.3600e-003        | 0.0132        | 4.0000e-005        | 3.6100e-003        | 3.0000e-005        | 3.6300e-003        | 9.6000e-004        | 2.0000e-005        | 9.8000e-004        | 0.0000        | 3.3682        | 3.3682        | 1.1000e-004        | 0.0000        | 3.3709        |
| <b>Total</b> | <b>1.7700e-003</b> | <b>1.3600e-003</b> | <b>0.0132</b> | <b>4.0000e-005</b> | <b>3.6100e-003</b> | <b>3.0000e-005</b> | <b>3.6300e-003</b> | <b>9.6000e-004</b> | <b>2.0000e-005</b> | <b>9.8000e-004</b> | <b>0.0000</b> | <b>3.3682</b> | <b>3.3682</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>3.3709</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0834        | 0.0000        | 0.0834        | 0.0346         | 0.0000        | 0.0346        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1066        | 1.2267        | 0.7510        | 1.4000e-003        |               | 0.0536        | 0.0536        |                | 0.0493        | 0.0493        | 0.0000        | 125.3278        | 125.3278        | 0.0397        | 0.0000        | 126.3191        |
| <b>Total</b>  | <b>0.1066</b> | <b>1.2267</b> | <b>0.7510</b> | <b>1.4000e-003</b> | <b>0.0834</b> | <b>0.0536</b> | <b>0.1370</b> | <b>0.0346</b>  | <b>0.0493</b> | <b>0.0839</b> | <b>0.0000</b> | <b>125.3278</b> | <b>125.3278</b> | <b>0.0397</b> | <b>0.0000</b> | <b>126.3191</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       | 1.7700e-003        | 1.3600e-003        | 0.0132        | 4.0000e-005        | 3.4200e-003        | 3.0000e-005        | 3.4500e-003        | 9.1000e-004        | 2.0000e-005        | 9.4000e-004        | 0.0000        | 3.3682        | 3.3682        | 1.1000e-004        | 0.0000        | 3.3709        |
| <b>Total</b> | <b>1.7700e-003</b> | <b>1.3600e-003</b> | <b>0.0132</b> | <b>4.0000e-005</b> | <b>3.4200e-003</b> | <b>3.0000e-005</b> | <b>3.4500e-003</b> | <b>9.1000e-004</b> | <b>2.0000e-005</b> | <b>9.4000e-004</b> | <b>0.0000</b> | <b>3.3682</b> | <b>3.3682</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>3.3709</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

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

| Category     | tons/yr       |               |               |                    |  |               |               |  |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Off-Road     | 0.1724        | 1.5388        | 1.2530        | 1.9600e-003        |  | 0.0942        | 0.0942        |  | 0.0885        | 0.0885        | 0.0000        | 171.6261        | 171.6261        | 0.0418        | 0.0000        | 172.6713        |
| <b>Total</b> | <b>0.1724</b> | <b>1.5388</b> | <b>1.2530</b> | <b>1.9600e-003</b> |  | <b>0.0942</b> | <b>0.0942</b> |  | <b>0.0885</b> | <b>0.0885</b> | <b>0.0000</b> | <b>171.6261</b> | <b>171.6261</b> | <b>0.0418</b> | <b>0.0000</b> | <b>172.6713</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       | 0.0291        | 0.7788        | 0.2092        | 1.7000e-003        | 0.0412        | 5.3900e-003        | 0.0466        | 0.0119         | 5.1600e-003        | 0.0171        | 0.0000        | 164.8532        | 164.8532        | 0.0132        | 0.0000        | 165.1839        |
| Worker       | 0.1007        | 0.0773        | 0.7476        | 2.1200e-003        | 0.2049        | 1.5000e-003        | 0.2064        | 0.0545         | 1.3800e-003        | 0.0558        | 0.0000        | 191.2409        | 191.2409        | 6.1500e-003   | 0.0000        | 191.3946        |
| <b>Total</b> | <b>0.1298</b> | <b>0.8561</b> | <b>0.9568</b> | <b>3.8200e-003</b> | <b>0.2461</b> | <b>6.8900e-003</b> | <b>0.2530</b> | <b>0.0663</b>  | <b>6.5400e-003</b> | <b>0.0729</b> | <b>0.0000</b> | <b>356.0940</b> | <b>356.0940</b> | <b>0.0194</b> | <b>0.0000</b> | <b>356.5785</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     | 0.1724        | 1.5388        | 1.2530        | 1.9600e-003        |               | 0.0942        | 0.0942        |                | 0.0885        | 0.0885        | 0.0000        | 171.6259        | 171.6259        | 0.0418        | 0.0000        | 172.6711        |
| <b>Total</b> | <b>0.1724</b> | <b>1.5388</b> | <b>1.2530</b> | <b>1.9600e-003</b> |               | <b>0.0942</b> | <b>0.0942</b> |                | <b>0.0885</b> | <b>0.0885</b> | <b>0.0000</b> | <b>171.6259</b> | <b>171.6259</b> | <b>0.0418</b> | <b>0.0000</b> | <b>172.6711</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       | 0.0291        | 0.7788        | 0.2092        | 1.7000e-003        | 0.0394        | 5.3900e-003        | 0.0448        | 0.0115         | 5.1600e-003        | 0.0166        | 0.0000        | 164.8532        | 164.8532        | 0.0132        | 0.0000        | 165.1839        |
| Worker       | 0.1007        | 0.0773        | 0.7476        | 2.1200e-003        | 0.1942        | 1.5000e-003        | 0.1957        | 0.0518         | 1.3800e-003        | 0.0532        | 0.0000        | 191.2409        | 191.2409        | 6.1500e-003   | 0.0000        | 191.3946        |
| <b>Total</b> | <b>0.1298</b> | <b>0.8561</b> | <b>0.9568</b> | <b>3.8200e-003</b> | <b>0.2337</b> | <b>6.8900e-003</b> | <b>0.2406</b> | <b>0.0633</b>  | <b>6.5400e-003</b> | <b>0.0698</b> | <b>0.0000</b> | <b>356.0940</b> | <b>356.0940</b> | <b>0.0194</b> | <b>0.0000</b> | <b>356.5785</b> |

### 3.6 Paving - 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     | 0.0145        | 0.1524        | 0.1467        | 2.3000e-004        |               | 8.2500e-003        | 8.2500e-003        |                | 7.5900e-003        | 7.5900e-003        | 0.0000        | 20.4752        | 20.4752        | 6.4800e-003        | 0.0000        | 20.6371        |
| Paving       | 9.6000e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0241</b> | <b>0.1524</b> | <b>0.1467</b> | <b>2.3000e-004</b> |               | <b>8.2500e-003</b> | <b>8.2500e-003</b> |                | <b>7.5900e-003</b> | <b>7.5900e-003</b> | <b>0.0000</b> | <b>20.4752</b> | <b>20.4752</b> | <b>6.4800e-003</b> | <b>0.0000</b> | <b>20.6371</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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

**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 | 0.0145      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |
| Paving   | 9.6000e-003 |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Total    | 0.0241      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |

**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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.1400e-003        | 1.0000e-005        | 1.1500e-003        | 3.0000e-004        | 1.0000e-005        | 3.1000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.1400e-003</b> | <b>1.0000e-005</b> | <b>1.1500e-003</b> | <b>3.0000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

3.7 Architectural Coating - 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         |                |                |                    |               |                |
| Archit. Coating | 4.7436        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0168        | 0.1156        | 0.1160        | 1.9000e-004        |               | 8.1100e-003        | 8.1100e-003        |                | 8.1100e-003        | 8.1100e-003        | 0.0000        | 16.0855        | 16.0855        | 1.3600e-003        | 0.0000        | 16.1195        |
| <b>Total</b>    | <b>4.7603</b> | <b>0.1156</b> | <b>0.1160</b> | <b>1.9000e-004</b> |               | <b>8.1100e-003</b> | <b>8.1100e-003</b> |                | <b>8.1100e-003</b> | <b>8.1100e-003</b> | <b>0.0000</b> | <b>16.0855</b> | <b>16.0855</b> | <b>1.3600e-003</b> | <b>0.0000</b> | <b>16.1195</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   | 0.0174  | 0.0133 | 0.1290 | 3.7000e-004 | 0.0354        | 2.6000e-004  | 0.0356     | 9.4000e-003    | 2.4000e-004   | 9.6400e-003 | 0.0000   | 33.0087   | 33.0087   | 1.0600e-003 | 0.0000 | 33.0352 |

|       |        |        |        |             |        |             |        |             |             |             |        |         |         |             |        |         |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|
| Total | 0.0174 | 0.0133 | 0.1290 | 3.7000e-004 | 0.0354 | 2.6000e-004 | 0.0356 | 9.4000e-003 | 2.4000e-004 | 9.6400e-003 | 0.0000 | 33.0087 | 33.0087 | 1.0600e-003 | 0.0000 | 33.0352 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|-------------|--------|---------|---------|-------------|--------|---------|

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 | 4.7436  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000   | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road        | 0.0168  | 0.1156 | 0.1160 | 1.9000e-004 |               | 8.1100e-003  | 8.1100e-003 |                | 8.1100e-003   | 8.1100e-003 | 0.0000   | 16.0855  | 16.0855   | 1.3600e-003 | 0.0000 | 16.1195 |
| Total           | 4.7603  | 0.1156 | 0.1160 | 1.9000e-004 |               | 8.1100e-003  | 8.1100e-003 |                | 8.1100e-003   | 8.1100e-003 | 0.0000   | 16.0855  | 16.0855   | 1.3600e-003 | 0.0000 | 16.1195 |

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   | 0.0174  | 0.0133 | 0.1290 | 3.7000e-004 | 0.0335        | 2.6000e-004  | 0.0338     | 8.9500e-003    | 2.4000e-004   | 9.1800e-003 | 0.0000   | 33.0087  | 33.0087   | 1.0600e-003 | 0.0000 | 33.0352 |
| Total    | 0.0174  | 0.0133 | 0.1290 | 3.7000e-004 | 0.0335        | 2.6000e-004  | 0.0338     | 8.9500e-003    | 2.4000e-004   | 9.1800e-003 | 0.0000   | 33.0087  | 33.0087   | 1.0600e-003 | 0.0000 | 33.0352 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.6442  | 2.8904 | 7.7536 | 0.0253 | 2.1014        | 0.0254       | 2.1268     | 0.5628         | 0.0238        | 0.5866      | 0.0000   | 2,324.8353 | 2,324.8353 | 0.1265 | 0.0000 | 2,327.9965 |
| Unmitigated | 0.6442  | 2.8904 | 7.7536 | 0.0253 | 2.1014        | 0.0254       | 2.1268     | 0.5628         | 0.0238        | 0.5866      | 0.0000   | 2,324.8353 | 2,324.8353 | 0.1265 | 0.0000 | 2,327.9965 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
| Land Use            | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

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   | 447.7862  | 447.7862  | 0.0180      | 3.7300e-003 | 449.3480 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 447.7862  | 447.7862  | 0.0180      | 3.7300e-003 | 449.3480 |
| NaturalGas Mitigated    | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |
| NaturalGas Unmitigated  | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |

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    |           |           |             |             |          |
| Apartments Low Rise | 3.32275e+006   | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |
| Parking Lot         | 0              | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Total               |                | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |

Mitigated

|                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|---------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use            | kBTU/yr         | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Apartments Low Rise | 3.32275e+006    | 0.0179        | 0.1531        | 0.0652        | 9.8000e-004        |               | 0.0124        | 0.0124        |                | 0.0124        | 0.0124        | 0.0000        | 177.3143        | 177.3143        | 3.4000e-003        | 3.2500e-003        | 178.3680        |
| Parking Lot         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>        |                 | <b>0.0179</b> | <b>0.1531</b> | <b>0.0652</b> | <b>9.8000e-004</b> |               | <b>0.0124</b> | <b>0.0124</b> |                | <b>0.0124</b> | <b>0.0124</b> | <b>0.0000</b> | <b>177.3143</b> | <b>177.3143</b> | <b>3.4000e-003</b> | <b>3.2500e-003</b> | <b>178.3680</b> |

5.3 Energy by Land Use - Electricity

Unmitigated

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 1.25622e+006    | 410.5431        | 0.0165        | 3.4200e-003        | 411.9750        |
| Parking Lot         | 113960          | 37.2431         | 1.5000e-003   | 3.1000e-004        | 37.3730         |
| <b>Total</b>        |                 | <b>447.7862</b> | <b>0.0180</b> | <b>3.7300e-003</b> | <b>449.3481</b> |

Mitigated

|                     | Electricity Use | Total CO2 | CH4    | N2O         | CO2e     |
|---------------------|-----------------|-----------|--------|-------------|----------|
| Land Use            | kWh/yr          | MT/yr     |        |             |          |
| Apartments Low Rise | 1.25622e+006    | 410.5431  | 0.0165 | 3.4200e-003 | 411.9750 |

|              |        |                 |               |                    |                 |
|--------------|--------|-----------------|---------------|--------------------|-----------------|
| Parking Lot  | 113960 | 37.2431         | 1.5000e-003   | 3.1000e-004        | 37.3730         |
| <b>Total</b> |        | <b>447.7862</b> | <b>0.0180</b> | <b>3.7300e-003</b> | <b>449.3481</b> |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

### Use only Natural Gas Hearths

|             | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | tons/yr |        |         |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Mitigated   | 1.7405  | 0.2068 | 2.2898  | 1.2700e-003 |               | 0.0268       | 0.0268     |                | 0.0268        | 0.0268      | 0.0000   | 213.4346  | 213.4346  | 7.5600e-003 | 3.8500e-003 | 214.7700 |
| Unmitigated | 20.2922 | 0.3883 | 25.1389 | 0.0417      |               | 3.2266       | 3.2266     |                | 3.2266        | 3.2266      | 305.7555 | 131.8341  | 437.5895  | 0.2857      | 0.0241      | 451.8990 |

## 6.2 Area by SubCategory

**Unmitigated**

[illegible]

|              |                |               |                |               |  |               |               |  |               |               |                 |                 |                 |               |               |                 |
|--------------|----------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Hearth       | 18.5729        | 0.3627        | 22.9262        | 0.0415        |  | 3.2145        | 3.2145        |  | 3.2145        | 3.2145        | 305.7555        | 128.2294        | 433.9849        | 0.2822        | 0.0241        | 448.2058        |
| Landscaping  | 0.0679         | 0.0256        | 2.2127         | 1.2000e-004   |  | 0.0122        | 0.0122        |  | 0.0122        | 0.0122        | 0.0000          | 3.6047          | 3.6047          | 3.5400e-003   | 0.0000        | 3.6932          |
| <b>Total</b> | <b>20.2922</b> | <b>0.3883</b> | <b>25.1389</b> | <b>0.0417</b> |  | <b>3.2266</b> | <b>3.2266</b> |  | <b>3.2266</b> | <b>3.2266</b> | <b>305.7555</b> | <b>131.8341</b> | <b>437.5895</b> | <b>0.2857</b> | <b>0.0241</b> | <b>451.8990</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 | 0.4744        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Consumer Products     | 1.1771        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hearth                | 0.0212        | 0.1812        | 0.0771        | 1.1600e-003        |               | 0.0147        | 0.0147        |                | 0.0147        | 0.0147        | 0.0000        | 209.8299        | 209.8299        | 4.0200e-003        | 3.8500e-003        | 211.0768        |
| Landscaping           | 0.0679        | 0.0256        | 2.2127        | 1.2000e-004        |               | 0.0122        | 0.0122        |                | 0.0122        | 0.0122        | 0.0000        | 3.6047          | 3.6047          | 3.5400e-003        | 0.0000             | 3.6932          |
| <b>Total</b>          | <b>1.7405</b> | <b>0.2068</b> | <b>2.2898</b> | <b>1.2800e-003</b> |               | <b>0.0268</b> | <b>0.0268</b> |                | <b>0.0268</b> | <b>0.0268</b> | <b>0.0000</b> | <b>213.4346</b> | <b>213.4346</b> | <b>7.5600e-003</b> | <b>3.8500e-003</b> | <b>214.7700</b> |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 112.0008  | 0.5071 | 0.0128 | 128.4803 |
| Unmitigated | 132.3308  | 0.6335 | 0.0159 | 152.9034 |

7.2 Water by Land Use

Unmitigated

|                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|--------------------|-----------|--------|--------|----------|
| Land Use            | Mgal               | MT/yr     |        |        |          |
| Apartments Low Rise | 19.2856 / 12.1583  | 132.3308  | 0.6335 | 0.0159 | 152.9034 |
| Parking Lot         | 0 / 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                    | 132.3308  | 0.6335 | 0.0159 | 152.9034 |

Mitigated

|  | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|-----|------|
|--|--------------------|-----------|-----|-----|------|

| Land Use           | Mgal              | MT/yr           |               |               |                 |
|--------------------|-------------------|-----------------|---------------|---------------|-----------------|
| Apartment Low Rise | 15.4285 / 11.4167 | 112.0008        | 0.5071        | 0.0128        | 128.4803        |
| Parking Lot        | 0 / 0             | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b>       |                   | <b>112.0008</b> | <b>0.5071</b> | <b>0.0128</b> | <b>128.4803</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 13.8196   | 0.8167 | 0.0000 | 34.2375 |
| Unmitigated | 27.6393   | 1.6334 | 0.0000 | 68.4751 |

### 8.2 Waste by Land Use

#### Unmitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |

|                     |        |                |               |               |                |
|---------------------|--------|----------------|---------------|---------------|----------------|
| Apartments Low Rise | 136.16 | 27.6393        | 1.6334        | 0.0000        | 68.4751        |
| Parking Lot         | 0      | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |        | <b>27.6393</b> | <b>1.6334</b> | <b>0.0000</b> | <b>68.4751</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use            | tons           | MT/yr          |               |               |                |
| Apartments Low Rise | 68.08          | 13.8196        | 0.8167        | 0.0000        | 34.2375        |
| Parking Lot         | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |                | <b>13.8196</b> | <b>0.8167</b> | <b>0.0000</b> | <b>34.2375</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---



Encinitas HE - #9 - San Diego County, Summer

## Encinitas HE - #9

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 21.50       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

### 1.2 Other Project Characteristics

|                                 |                          |                                 |       |                                  |       |
|---------------------------------|--------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                    | <b>Wind Speed (m/s)</b>         | 2.6   | <b>Precipitation Freq (Days)</b> | 40    |
| <b>Climate Zone</b>             | 13                       | <b>Operational Year</b>         | 2020  |                                  |       |
| <b>Utility Company</b>          | San Diego Gas & Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

Project Characteristics -

Land Use - Site 9 = approx 21.5 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 9 = 21.5 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 35.00         | 20.00      |
| tblConstructionPhase   | NumDays                         | 440.00        | 146.00     |
| tblConstructionPhase   | NumDays                         | 35.00         | 126.00     |
| tblConstructionPhase   | PhaseEndDate                    | 3/8/2021      | 6/10/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 1/18/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 4/26/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 1/19/2021     | 5/14/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 5/14/2019     | 6/11/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/9/2021      | 7/9/2019   |
| tblLandUse             | LotAcreage                      | 18.50         | 21.50      |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 79.9624 | 63.4284 | 34.7212 | 0.1130 | 21.8637       | 2.3914       | 23.7636    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 11,901.1236 | 11,901.1236 | 1.9482 | 0.0000 | 11,945.3701 |
| Maximum | 79.9624 | 63.4284 | 34.7212 | 0.1130 | 21.8637       | 2.3914       | 23.7636    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 11,901.1236 | 11,901.1236 | 1.9482 | 0.0000 | 11,945.3701 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 79.9624 | 63.4284 | 34.7212 | 0.1130 | 10.2573       | 2.3914       | 12.1572    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 11,901.1236 | 11,901.1236 | 1.9482 | 0.0000 | 11,945.3701 |
| Maximum | 79.9624 | 63.4284 | 34.7212 | 0.1130 | 10.2573       | 2.3914       | 12.1572    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 11,901.1236 | 11,901.1236 | 1.9482 | 0.0000 | 11,945.3701 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 53.09         | 0.00         | 48.84      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 462.7998 | 9.1307  | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791  | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |
| Energy   | 0.0982   | 0.8389  | 0.3570   | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |            | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 4.0469   | 16.6747 | 47.5156  | 0.1574      | 12.8325       | 0.1512       | 12.9838    | 3.4300         | 0.1419        | 3.5719      |            | 15,968.6039 | 15,968.6039 | 0.8374 |        | 15,989.5396 |
| Total    | 466.9449 | 26.6443 | 631.6333 | 1.1771      | 12.8325       | 78.7558      | 91.5883    | 3.4300         | 78.7465       | 82.1765     | 8,220.4323 | 20,531.2725 | 28,751.7048 | 8.4874 | 0.6662 | 29,162.4276 |

Mitigated Operational

|          | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| Area     | 10.3200 | 4.7033  | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614  | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Energy   | 0.0982  | 0.8389  | 0.3570  | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 4.0469  | 16.6747 | 47.5156 | 0.1574      | 12.8325       | 0.1512       | 12.9838    | 3.4300         | 0.1419        | 3.5719      |          | 15,968.6039 | 15,968.6039 | 0.8374 |        | 15,989.5396 |
| Total    | 14.4651 | 22.2169 | 74.3383 | 0.1923      | 12.8325       | 0.7114       | 13.5439    | 3.4300         | 0.7021        | 4.1321      | 0.0000   | 22,725.1548 | 22,725.1548 | 1.0094 | 0.1231 | 22,787.0628 |

|                   | ROG   | NOx   | CO    | SO2   | 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 | 96.90 | 16.62 | 88.23 | 83.67 | 0.00          | 99.10        | 85.21      | 0.00           | 99.11         | 94.97       | 100.00   | -10.69   | 20.96     | 88.11 | 81.53 | 21.86 |

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            | 1/1/2019   | 2/11/2019  | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 2/12/2019  | 3/11/2019  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 3/12/2019  | 5/13/2019  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 6/11/2019  | 12/31/2019 | 5             | 146      |                   |
| 5            | Paving                | Paving                | 5/14/2019  | 6/10/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 7/9/2019   | 12/31/2019 | 5             | 126      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 7.33

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| 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       | 6                       | 15.00              | 0.00               | 2,757.00            | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Building Construction | 9 | 350.00 | 85.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 70.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 20.1346       | 0.0000       | 20.1346    | 3.0491         | 0.0000        | 3.0491      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 20.1346       | 1.7949       | 21.9295    | 3.0491         | 1.6697        | 4.7188      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |                |               |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Hauling      | 0.7977        | 27.6043        | 5.9588        | 0.0729        | 1.6059        | 0.1042        | 1.7100        | 0.4401        | 0.0997        | 0.5398        |  | 7,953.6942        | 7,953.6942        | 0.7039        |  | 7,971.2909        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |  | 0.0000            | 0.0000            | 0.0000        |  | 0.0000            |
| Worker       | 0.0589        | 0.0411         | 0.4641        | 1.3100e-003   | 0.1232        | 8.8000e-004   | 0.1241        | 0.0327        | 8.1000e-004   | 0.0335        |  | 130.5300          | 130.5300          | 4.1700e-003   |  | 130.6342          |
| <b>Total</b> | <b>0.8566</b> | <b>27.6454</b> | <b>6.4229</b> | <b>0.0742</b> | <b>1.7291</b> | <b>0.1051</b> | <b>1.8341</b> | <b>0.4728</b> | <b>0.1005</b> | <b>0.5733</b> |  | <b>8,084.2242</b> | <b>8,084.2242</b> | <b>0.7080</b> |  | <b>8,101.9250</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6075        | 0.0000        | 8.6075         | 1.3035         | 0.0000        | 1.3035        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949         |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>8.6075</b> | <b>1.7949</b> | <b>10.4024</b> | <b>1.3035</b>  | <b>1.6697</b> | <b>2.9732</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

**Mitigated Construction Off-Site**

|          | ROG    | NOx     | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4         | N2O | CO2e       |
|----------|--------|---------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-----|------------|
| Category | lb/day |         |        |             |               |              |            |                |               |             | lb/day   |            |            |             |     |            |
| Hauling  | 0.7977 | 27.6043 | 5.9588 | 0.0729      | 1.5330        | 0.1042       | 1.6371     | 0.4222         | 0.0997        | 0.5219      |          | 7,953.6942 | 7,953.6942 | 0.7039      |     | 7,971.2909 |
| Vendor   | 0.0000 | 0.0000  | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000      |     | 0.0000     |
| Worker   | 0.0589 | 0.0411  | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300   | 130.5300   | 4.1700e-003 |     | 130.6342   |

|       |        |         |        |        |        |        |        |        |        |        |  |                |            |        |  |                |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--|----------------|------------|--------|--|----------------|
| Total | 0.8566 | 27.6454 | 6.4229 | 0.0742 | 1.6498 | 0.1051 | 1.7548 | 0.4533 | 0.1005 | 0.5538 |  | 8,084.224<br>2 | 8,084.2242 | 0.7080 |  | 8,101.925<br>0 |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--|----------------|------------|--------|--|----------------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |
| Total    | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |

Mitigated Construction On-Site



|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0707        | 0.0493        | 0.5569        | 1.5700e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 156.6359        | 156.6359        | 5.0000e-003        |     | 156.7610        |
| <b>Total</b> | <b>0.0707</b> | <b>0.0493</b> | <b>0.5569</b> | <b>1.5700e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>156.6359</b> | <b>156.6359</b> | <b>5.0000e-003</b> |     | <b>156.7610</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 |     | 0.0000     |
| Vendor   | 0.3912 | 10.5390 | 2.7208  | 0.0235 | 0.5754        | 0.0733       | 0.6487     | 0.1657         | 0.0701        | 0.2358      |          | 2,516.1414 | 2,516.1414 | 0.1943 |     | 2,520.9979 |
| Worker   | 1.3743 | 0.9591  | 10.8294 | 0.0306 | 2.8752        | 0.0205       | 2.8957     | 0.7626         | 0.0189        | 0.7815      |          | 3,045.6987 | 3,045.6987 | 0.0973 |     | 3,048.1301 |
| Total    | 1.7655 | 11.4980 | 13.5502 | 0.0541 | 3.4506        | 0.0938       | 3.5444     | 0.9283         | 0.0890        | 1.0173      |          | 5,561.8401 | 5,561.8401 | 0.2915 |     | 5,569.1280 |

Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |                |                |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.3912        | 10.5390        | 2.7208         | 0.0235        | 0.5508        | 0.0733        | 0.6241        | 0.1596        | 0.0701        | 0.2297        |  | 2,516.1414        | 2,516.1414        | 0.1943        |  | 2,520.9979        |
| Worker       | 1.3743        | 0.9591         | 10.8294        | 0.0306        | 2.7252        | 0.0205        | 2.7457        | 0.7258        | 0.0189        | 0.7447        |  | 3,045.6987        | 3,045.6987        | 0.0973        |  | 3,048.1301        |
| <b>Total</b> | <b>1.7655</b> | <b>11.4980</b> | <b>13.5502</b> | <b>0.0541</b> | <b>3.2761</b> | <b>0.0938</b> | <b>3.3699</b> | <b>0.8854</b> | <b>0.0890</b> | <b>0.9745</b> |  | <b>5,561.8401</b> | <b>5,561.8401</b> | <b>0.2915</b> |  | <b>5,569.1280</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.9602        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.4147</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 130.5300        | 130.5300        | 4.1700e-003        |     | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |     | <b>130.6342</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.9602 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.4147 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |
| Total    | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 75.2945        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>75.5609</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2749        | 0.1918        | 2.1659        | 6.1200e-003        | 0.5750        | 4.1000e-003        | 0.5791        | 0.1525         | 3.7800e-003        | 0.1563        |          | 609.1397        | 609.1397        | 0.0195        |     | 609.6260        |
| <b>Total</b> | <b>0.2749</b> | <b>0.1918</b> | <b>2.1659</b> | <b>6.1200e-003</b> | <b>0.5750</b> | <b>4.1000e-003</b> | <b>0.5791</b> | <b>0.1525</b>  | <b>3.7800e-003</b> | <b>0.1563</b> |          | <b>609.1397</b> | <b>609.1397</b> | <b>0.0195</b> |     | <b>609.6260</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |           |           |     |     |        |
| Archit. Coating | 75.2945 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>75.5609</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2749        | 0.1918        | 2.1659        | 6.1200e-003        | 0.5451        | 4.1000e-003        | 0.5492        | 0.1452         | 3.7800e-003        | 0.1489        |          | 609.1397        | 609.1397        | 0.0195        |     | 609.6260        |
| <b>Total</b> | <b>0.2749</b> | <b>0.1918</b> | <b>2.1659</b> | <b>6.1200e-003</b> | <b>0.5451</b> | <b>4.1000e-003</b> | <b>0.5492</b> | <b>0.1452</b>  | <b>3.7800e-003</b> | <b>0.1489</b> |          | <b>609.1397</b> | <b>609.1397</b> | <b>0.0195</b> |     | <b>609.6260</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 4.0469 | 16.6747 | 47.5156 | 0.1574 | 12.8325       | 0.1512       | 12.9838    | 3.4300         | 0.1419        | 3.5719      |          | 15,968.6039 | 15,968.6039 | 0.8374 |     | 15,989.5396 |



|             |        |         |         |        |         |        |         |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 4.0469 | 16.6747 | 47.5156 | 0.1574 | 12.8325 | 0.1512 | 12.9838 | 3.4300 | 0.1419 | 3.5719 |  | 15,968.6039 | 15,968.6039 | 0.8374 |  | 15,989.5396 |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |            |            |        |        |            |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|
| NaturalGas Mitigated   | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| NaturalGas Unmitigated | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9103.41        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9.10341        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Mitigated   | 10.3200  | 4.7033 | 26.4657  | 0.0295 |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000     | 5,685.5614 | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Unmitigated | 462.7998 | 9.1307 | 583.7607 | 1.0144 |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Architectural Coating | 2.5992   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Consumer Products     | 6.4497   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Hearth                | 452.9969 | 8.8465 | 559.1755 | 1.0131      |               | 78.4017      | 78.4017    |                | 78.4017       | 78.4017     | 8,220.4323 | 3,447.5294 | 11,667.9617 | 7.5861 | 0.6466 | 12,050.3006 |
| Landscaping           | 0.7540   | 0.2842 | 24.5852  | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |            | 44.1496    | 44.1496     | 0.0434 |        | 45.2335     |
| Total                 | 462.7998 | 9.1307 | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6294 | 0.6466 | 12,095.5341 |

Mitigated

|                       | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day  |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.5992  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 6.4497  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.5171  | 4.4191 | 1.8805  | 0.0282      |               | 0.3573       | 0.3573     |                | 0.3573        | 0.3573      | 0.0000   | 5,641.4118 | 5,641.4118 | 0.1081 | 0.1034 | 5,674.9359 |
| Landscaping           | 0.7540  | 0.2842 | 24.5852 | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |          | 44.1496    | 44.1496    | 0.0434 |        | 45.2335    |
| Total                 | 10.3200 | 4.7033 | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614 | 5,685.5614 | 0.1515 | 0.1034 | 5,720.1693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - #9 - San Diego County, Winter

## Encinitas HE - #9

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 21.50       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       | <b>Operational Year</b>             | 2020  |                                     |       |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 9 = approx 21.5 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 9 = 21.5 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 35.00         | 20.00      |
| tblConstructionPhase   | NumDays                         | 440.00        | 146.00     |
| tblConstructionPhase   | NumDays                         | 35.00         | 126.00     |
| tblConstructionPhase   | PhaseEndDate                    | 3/8/2021      | 6/10/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 1/18/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 4/26/2021     | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 1/19/2021     | 5/14/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 5/14/2019     | 6/11/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 3/9/2021      | 7/9/2019   |
| tblLandUse             | LotAcreage                      | 18.50         | 21.50      |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 80.1953 | 63.7163 | 34.3023 | 0.1117 | 21.8637       | 2.3914       | 23.7660    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 11,759.2887 | 11,759.2887 | 1.9479 | 0.0000 | 11,804.1669 |
| Maximum | 80.1953 | 63.7163 | 34.3023 | 0.1117 | 21.8637       | 2.3914       | 23.7660    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 11,759.2887 | 11,759.2887 | 1.9479 | 0.0000 | 11,804.1669 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 80.1953 | 63.7163 | 34.3023 | 0.1117 | 10.2573       | 2.3914       | 12.1597    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 11,759.2887 | 11,759.2887 | 1.9479 | 0.0000 | 11,804.1669 |
| Maximum | 80.1953 | 63.7163 | 34.3023 | 0.1117 | 10.2573       | 2.3914       | 12.1597    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 11,759.2887 | 11,759.2887 | 1.9479 | 0.0000 | 11,804.1669 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 53.09         | 0.00         | 48.84      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 462.7998 | 9.1307  | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791  | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |
| Energy   | 0.0982   | 0.8389  | 0.3570   | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |            | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 3.9384   | 17.1920 | 46.7656  | 0.1492      | 12.8325       | 0.1522       | 12.9848    | 3.4300         | 0.1429        | 3.5729      |            | 15,142.1577 | 15,142.1577 | 0.8396 |        | 15,163.1465 |
| Total    | 466.8363 | 27.1616 | 630.8833 | 1.1689      | 12.8325       | 78.7568      | 91.5893    | 3.4300         | 78.7475       | 82.1775     | 8,220.4323 | 19,704.8263 | 27,925.2586 | 8.4895 | 0.6662 | 28,336.0345 |



Mitigated Operational

|          | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| Area     | 10.3200 | 4.7033  | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614  | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Energy   | 0.0982  | 0.8389  | 0.3570  | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 3.9384  | 17.1920 | 46.7656 | 0.1492      | 12.8325       | 0.1522       | 12.9848    | 3.4300         | 0.1429        | 3.5729      |          | 15,142.1577 | 15,142.1577 | 0.8396 |        | 15,163.1465 |
| Total    | 14.3566 | 22.7342 | 73.5883 | 0.1841      | 12.8325       | 0.7124       | 13.5449    | 3.4300         | 0.7030        | 4.1330      | 0.0000   | 21,898.7086 | 21,898.7086 | 1.0116 | 0.1231 | 21,960.6697 |

|                   | ROG   | NOx   | CO    | SO2   | 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 | 96.92 | 16.30 | 88.34 | 84.25 | 0.00          | 99.10        | 85.21      | 0.00           | 99.11         | 94.97       | 100.00   | -11.13   | 21.58     | 88.08 | 81.53 | 22.50 |

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            | 1/1/2019   | 2/11/2019  | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 2/12/2019  | 3/11/2019  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 3/12/2019  | 5/13/2019  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 6/11/2019  | 12/31/2019 | 5             | 146      |                   |
| 5            | Paving                | Paving                | 5/14/2019  | 6/10/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 7/9/2019   | 12/31/2019 | 5             | 126      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 7.33

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| 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       | 6                       | 15.00              | 0.00               | 2,757.00            | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Building Construction | 9 | 350.00 | 85.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 70.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 20.1346       | 0.0000       | 20.1346    | 3.0491         | 0.0000        | 3.0491      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 20.1346       | 1.7949       | 21.9295    | 3.0491         | 1.6697        | 4.7188      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |                |               |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Hauling      | 0.8202        | 27.8872        | 6.3858        | 0.0717        | 1.6059        | 0.1066        | 1.7125        | 0.4401        | 0.1020        | 0.5421        |  | 7,819.8523        | 7,819.8523        | 0.7294        |  | 7,838.0859        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |  | 0.0000            | 0.0000            | 0.0000        |  | 0.0000            |
| Worker       | 0.0666        | 0.0462         | 0.4386        | 1.2300e-003   | 0.1232        | 8.8000e-004   | 0.1241        | 0.0327        | 8.1000e-004   | 0.0335        |  | 122.5371          | 122.5371          | 3.9500e-003   |  | 122.6359          |
| <b>Total</b> | <b>0.8868</b> | <b>27.9333</b> | <b>6.8244</b> | <b>0.0729</b> | <b>1.7291</b> | <b>0.1075</b> | <b>1.8366</b> | <b>0.4728</b> | <b>0.1028</b> | <b>0.5756</b> |  | <b>7,942.3893</b> | <b>7,942.3893</b> | <b>0.7333</b> |  | <b>7,960.7219</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6075        | 0.0000        | 8.6075         | 1.3035         | 0.0000        | 1.3035        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949         |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>8.6075</b> | <b>1.7949</b> | <b>10.4024</b> | <b>1.3035</b>  | <b>1.6697</b> | <b>2.9732</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

**Mitigated Construction Off-Site**

|          | ROG    | NOx     | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4         | N2O | CO2e       |
|----------|--------|---------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-----|------------|
| Category | lb/day |         |        |             |               |              |            |                |               |             | lb/day   |            |            |             |     |            |
| Hauling  | 0.8202 | 27.8872 | 6.3858 | 0.0717      | 1.5330        | 0.1066       | 1.6396     | 0.4222         | 0.1020        | 0.5242      |          | 7,819.8523 | 7,819.8523 | 0.7294      |     | 7,838.0859 |
| Vendor   | 0.0000 | 0.0000  | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000      |     | 0.0000     |
| Worker   | 0.0666 | 0.0462  | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371   | 122.5371   | 3.9500e-003 |     | 122.6359   |

|       |        |         |        |        |        |        |        |        |        |        |  |            |            |        |  |            |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Total | 0.8868 | 27.9333 | 6.8244 | 0.0729 | 1.6498 | 0.1075 | 1.7572 | 0.4533 | 0.1028 | 0.5561 |  | 7,942.3893 | 7,942.3893 | 0.7333 |  | 7,960.7219 |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--|------------|------------|--------|--|------------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |
| Total    | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0799        | 0.0554        | 0.5263        | 1.4800e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 147.0445        | 147.0445        | 4.7400e-003        |     | 147.1631        |
| <b>Total</b> | <b>0.0799</b> | <b>0.0554</b> | <b>0.5263</b> | <b>1.4800e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>147.0445</b> | <b>147.0445</b> | <b>4.7400e-003</b> |     | <b>147.1631</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site



|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 |     | 0.0000     |
| Vendor   | 0.4081 | 10.5475 | 3.0167  | 0.0229 | 0.5754        | 0.0746       | 0.6500     | 0.1657         | 0.0714        | 0.2370      |          | 2,452.2522 | 2,452.2522 | 0.2067 |     | 2,457.4185 |
| Worker   | 1.5543 | 1.0771  | 10.2338 | 0.0287 | 2.8752        | 0.0205       | 2.8957     | 0.7626         | 0.0189        | 0.7815      |          | 2,859.1981 | 2,859.1981 | 0.0923 |     | 2,861.5046 |
| Total    | 1.9623 | 11.6246 | 13.2504 | 0.0516 | 3.4506        | 0.0951       | 3.5457     | 0.9283         | 0.0903        | 1.0185      |          | 5,311.4503 | 5,311.4503 | 0.2989 |     | 5,318.9231 |

Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |                |                |               |               |               |               |               |               |               |  |                        |                   |               |  |                        |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|------------------------|-------------------|---------------|--|------------------------|
| Vendor       | 0.4081        | 10.5475        | 3.0167         | 0.0229        | 0.5508        | 0.0746        | 0.6254        | 0.1596        | 0.0714        | 0.2310        |  | 2,452.252<br>2         | 2,452.2522        | 0.2067        |  | 2,457.418<br>5         |
| Worker       | 1.5543        | 1.0771         | 10.2338        | 0.0287        | 2.7252        | 0.0205        | 2.7457        | 0.7258        | 0.0189        | 0.7447        |  | 2,859.198<br>1         | 2,859.1981        | 0.0923        |  | 2,861.504<br>6         |
| <b>Total</b> | <b>1.9623</b> | <b>11.6246</b> | <b>13.2504</b> | <b>0.0516</b> | <b>3.2761</b> | <b>0.0951</b> | <b>3.3712</b> | <b>0.8854</b> | <b>0.0903</b> | <b>0.9757</b> |  | <b>5,311.450<br/>3</b> | <b>5,311.4503</b> | <b>0.2989</b> |  | <b>5,318.923<br/>1</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive<br>PM10 | Exhaust<br>PM10 | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5 | PM2.5<br>Total | Bio- CO2 | NBio-<br>CO2           | Total CO2         | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|------------------------|-------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |                  |                 |               |                   |                  |                | lb/day   |                        |                   |               |     |                        |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |                  | 0.8246          | 0.8246        |                   | 0.7586           | 0.7586         |          | 2,257.002<br>5         | 2,257.0025        | 0.7141        |     | 2,274.854<br>8         |
| Paving       | 0.9602        |                |                |               |                  | 0.0000          | 0.0000        |                   | 0.0000           | 0.0000         |          |                        | 0.0000            |               |     | 0.0000                 |
| <b>Total</b> | <b>2.4147</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |                  | <b>0.8246</b>   | <b>0.8246</b> |                   | <b>0.7586</b>    | <b>0.7586</b>  |          | <b>2,257.002<br/>5</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.854<br/>8</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                     | Fugitive<br>PM10 | Exhaust<br>PM10         | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5        | PM2.5<br>Total | Bio- CO2 | NBio-<br>CO2    | Total CO2       | CH4                     | N2O | CO2e            |
|--------------|---------------|---------------|---------------|-------------------------|------------------|-------------------------|---------------|-------------------|-------------------------|----------------|----------|-----------------|-----------------|-------------------------|-----|-----------------|
| Category     | lb/day        |               |               |                         |                  |                         |               |                   |                         |                | lb/day   |                 |                 |                         |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000                  | 0.0000           | 0.0000                  | 0.0000        | 0.0000            | 0.0000                  | 0.0000         |          | 0.0000          | 0.0000          | 0.0000                  |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000                  | 0.0000           | 0.0000                  | 0.0000        | 0.0000            | 0.0000                  | 0.0000         |          | 0.0000          | 0.0000          | 0.0000                  |     | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-<br>003         | 0.1232           | 8.8000e-<br>004         | 0.1241        | 0.0327            | 8.1000e-<br>004         | 0.0335         |          | 122.5371        | 122.5371        | 3.9500e-<br>003         |     | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-<br/>003</b> | <b>0.1232</b>    | <b>8.8000e-<br/>004</b> | <b>0.1241</b> | <b>0.0327</b>     | <b>8.1000e-<br/>004</b> | <b>0.0335</b>  |          | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-<br/>003</b> |     | <b>122.6359</b> |

### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.9602 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.4147 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |
| Total    | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 75.2945        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>75.5609</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.3109        | 0.2154        | 2.0468        | 5.7400e-003        | 0.5750        | 4.1000e-003        | 0.5791        | 0.1525         | 3.7800e-003        | 0.1563        |          | 571.8396        | 571.8396        | 0.0185        |     | 572.3009        |
| <b>Total</b> | <b>0.3109</b> | <b>0.2154</b> | <b>2.0468</b> | <b>5.7400e-003</b> | <b>0.5750</b> | <b>4.1000e-003</b> | <b>0.5791</b> | <b>0.1525</b>  | <b>3.7800e-003</b> | <b>0.1563</b> |          | <b>571.8396</b> | <b>571.8396</b> | <b>0.0185</b> |     | <b>572.3009</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 75.2945 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>75.5609</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.3109        | 0.2154        | 2.0468        | 5.7400e-003        | 0.5451        | 4.1000e-003        | 0.5492        | 0.1452         | 3.7800e-003        | 0.1489        |          | 571.8396        | 571.8396        | 0.0185        |     | 572.3009        |
| <b>Total</b> | <b>0.3109</b> | <b>0.2154</b> | <b>2.0468</b> | <b>5.7400e-003</b> | <b>0.5451</b> | <b>4.1000e-003</b> | <b>0.5492</b> | <b>0.1452</b>  | <b>3.7800e-003</b> | <b>0.1489</b> |          | <b>571.8396</b> | <b>571.8396</b> | <b>0.0185</b> |     | <b>572.3009</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 3.9384 | 17.1920 | 46.7656 | 0.1492 | 12.8325       | 0.1522       | 12.9848    | 3.4300         | 0.1429        | 3.5729      |          | 15,142.1577 | 15,142.1577 | 0.8396 |     | 15,163.1465 |

|             |        |         |         |        |         |        |         |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 3.9384 | 17.1920 | 46.7656 | 0.1492 | 12.8325 | 0.1522 | 12.9848 | 3.4300 | 0.1429 | 3.5729 |  | 15,142.1577 | 15,142.1577 | 0.8396 |  | 15,163.1465 |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |            |            |        |        |            |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|
| NaturalGas Mitigated   | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| NaturalGas Unmitigated | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9103.41        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9.10341        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Mitigated   | 10.3200  | 4.7033 | 26.4657  | 0.0295 |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000     | 5,685.5614 | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Unmitigated | 462.7998 | 9.1307 | 583.7607 | 1.0144 |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Architectural Coating | 2.5992   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Consumer Products     | 6.4497   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Hearth                | 452.9969 | 8.8465 | 559.1755 | 1.0131      |               | 78.4017      | 78.4017    |                | 78.4017       | 78.4017     | 8,220.4323 | 3,447.5294 | 11,667.9617 | 7.5861 | 0.6466 | 12,050.3006 |
| Landscaping           | 0.7540   | 0.2842 | 24.5852  | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |            | 44.1496    | 44.1496     | 0.0434 |        | 45.2335     |
| Total                 | 462.7998 | 9.1307 | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6294 | 0.6466 | 12,095.5341 |



Mitigated

|                       | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day  |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.5992  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 6.4497  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.5171  | 4.4191 | 1.8805  | 0.0282      |               | 0.3573       | 0.3573     |                | 0.3573        | 0.3573      | 0.0000   | 5,641.4118 | 5,641.4118 | 0.1081 | 0.1034 | 5,674.9359 |
| Landscaping           | 0.7540  | 0.2842 | 24.5852 | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |          | 44.1496    | 44.1496    | 0.0434 |        | 45.2335    |
| Total                 | 10.3200 | 4.7033 | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614 | 5,685.5614 | 0.1515 | 0.1034 | 5,720.1693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - #10 - San Diego County, Annual

**Encinitas HE - #10**  
**San Diego County, Annual**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 16.90       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

### 1.2 Other Project Characteristics

|                                    |                          |                                    |       |                                    |       |
|------------------------------------|--------------------------|------------------------------------|-------|------------------------------------|-------|
| <b>Urbanization</b>                | Urban                    | <b>Wind Speed (m/s)</b>            | 2.6   | <b>Precipitation Freq (Days)</b>   | 40    |
| <b>Climate Zone</b>                | 13                       |                                    |       | <b>Operational Year</b>            | 2020  |
| <b>Utility Company</b>             | San Diego Gas & Electric |                                    |       |                                    |       |
| <b>CO2 Intensity<br/>(lb/MWhr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MWhr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MWhr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 10 = approx 16.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 370.00        | 176.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 132.00     |
| tblConstructionPhase   | PhaseEndDate                    | 9/28/2020     | 4/29/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 8/31/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 10/26/2020    | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 9/1/2020      | 4/2/2019   |
| tblConstructionPhase   | PhaseStartDate                  | 4/2/2019      | 4/30/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 9/29/2020     | 6/29/2019  |
| tblLandUse             | LotAcreage                      | 18.50         | 16.90      |

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    | 5.3105  | 4.7193 | 4.0045 | 9.5000e-003 | 0.5838        | 0.2105       | 0.7943     | 0.2043         | 0.1970        | 0.4014      | 0.0000   | 863.4914  | 863.4914  | 0.1289 | 0.0000 | 866.7138 |
| Maximum | 5.3105  | 4.7193 | 4.0045 | 9.5000e-003 | 0.5838        | 0.2105       | 0.7943     | 0.2043         | 0.1970        | 0.4014      | 0.0000   | 863.4914  | 863.4914  | 0.1289 | 0.0000 | 866.7138 |

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    | 5.3105  | 4.7193 | 4.0045 | 9.5000e-003 | 0.4269        | 0.2105       | 0.6374     | 0.1355         | 0.1970        | 0.3325      | 0.0000   | 863.4910  | 863.4910  | 0.1289 | 0.0000 | 866.7134 |
| Maximum | 5.3105  | 4.7193 | 4.0045 | 9.5000e-003 | 0.4269        | 0.2105       | 0.6374     | 0.1355         | 0.1970        | 0.3325      | 0.0000   | 863.4910  | 863.4910  | 0.1289 | 0.0000 | 866.7134 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 26.87         | 0.00         | 19.75      | 33.70          | 0.00          | 17.15       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019 | 1.6656                                       | 1.6656                                     |
| 2       | 4-1-2019   | 6-30-2019 | 1.0647                                       | 1.0647                                     |
| 3       | 7-1-2019   | 9-30-2019 | 3.6519                                       | 3.6519                                     |
|         |            | Highest   | 3.6519                                       | 3.6519                                     |

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     | 20.2922 | 0.3883 | 25.1389 | 0.0417      |               | 3.2266       | 3.2266     |                | 3.2266        | 3.2266      | 305.7555 | 131.8341  | 437.5895  | 0.2857 | 0.0241      | 451.8990 |
| Energy   | 0.0179  | 0.1531 | 0.0652  | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 625.1005  | 625.1005  | 0.0214 | 6.9800e-003 | 627.7161 |

|              |                |               |                |               |               |               |               |               |               |               |                 |                   |                   |               |               |                   |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Mobile       | 0.6442         | 2.8904        | 7.7536         | 0.0253        | 2.1014        | 0.0254        | 2.1268        | 0.5628        | 0.0238        | 0.5866        | 0.0000          | 2,324.8353        | 2,324.8353        | 0.1265        | 0.0000        | 2,327.9965        |
| Waste        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 27.6393         | 0.0000            | 27.6393           | 1.6334        | 0.0000        | 68.4751           |
| Water        |                |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 6.1184          | 126.2124          | 132.3308          | 0.6335        | 0.0159        | 152.9034          |
| <b>Total</b> | <b>20.9543</b> | <b>3.4318</b> | <b>32.9576</b> | <b>0.0679</b> | <b>2.1014</b> | <b>3.2644</b> | <b>5.3658</b> | <b>0.5628</b> | <b>3.2628</b> | <b>3.8256</b> | <b>339.5132</b> | <b>3,207.9823</b> | <b>3,547.4955</b> | <b>2.7005</b> | <b>0.0469</b> | <b>3,628.9900</b> |

Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.7405        | 0.2068        | 2.2898         | 1.2700e-003   |               | 0.0268        | 0.0268        |                | 0.0268        | 0.0268        | 0.0000         | 213.4346          | 213.4346          | 7.5600e-003   | 3.8500e-003   | 214.7700          |
| Energy       | 0.0179        | 0.1531        | 0.0652         | 9.8000e-004   |               | 0.0124        | 0.0124        |                | 0.0124        | 0.0124        | 0.0000         | 625.1005          | 625.1005          | 0.0214        | 6.9800e-003   | 627.7161          |
| Mobile       | 0.6442        | 2.8904        | 7.7536         | 0.0253        | 2.1014        | 0.0254        | 2.1268        | 0.5628         | 0.0238        | 0.5866        | 0.0000         | 2,324.8353        | 2,324.8353        | 0.1265        | 0.0000        | 2,327.9965        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 13.8196        | 0.0000            | 13.8196           | 0.8167        | 0.0000        | 34.2375           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.8947         | 107.1061          | 112.0008          | 0.5071        | 0.0128        | 128.4803          |
| <b>Total</b> | <b>2.4026</b> | <b>3.2503</b> | <b>10.1085</b> | <b>0.0275</b> | <b>2.1014</b> | <b>0.0646</b> | <b>2.1660</b> | <b>0.5628</b>  | <b>0.0630</b> | <b>0.6258</b> | <b>18.7144</b> | <b>3,270.4765</b> | <b>3,289.1908</b> | <b>1.4792</b> | <b>0.0236</b> | <b>3,333.2004</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 | 88.53 | 5.29 | 69.33 | 59.49 | 0.00          | 98.02        | 59.63      | 0.00           | 98.07         | 83.64       | 94.49    | -1.95    | 7.28      | 45.22 | 49.72 | 8.15 |

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            | 1/1/2019  | 1/28/2019  | 5 | 20  |
| 2 | Site Preparation      | Site Preparation      | 1/29/2019 | 2/11/2019  | 5 | 10  |
| 3 | Grading               | Grading               | 2/12/2019 | 4/1/2019   | 5 | 35  |
| 4 | Building Construction | Building Construction | 4/30/2019 | 12/31/2019 | 5 | 176 |
| 5 | Paving                | Paving                | 4/2/2019  | 4/29/2019  | 5 | 20  |
| 6 | Architectural Coating | Architectural Coating | 6/29/2019 | 12/31/2019 | 5 | 132 |

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

**Acres of Grading (Grading Phase): 87.5**

**Acres of Paving: 7.33**

**Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

#### **OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |

|                       |                           |   |      |    |      |
|-----------------------|---------------------------|---|------|----|------|
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders                   | 1 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 18.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 350.00             | 85.00              | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 70.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**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    |           |           |        |        |        |
| Fugitive Dust |         |     |    |     | 1.9300e-003   | 0.0000       | 1.9300e-003 | 2.9000e-004    | 0.0000        | 2.9000e-004 | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |



|              |               |               |               |                    |                    |               |               |                    |               |               |               |                |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Off-Road     | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |                    | 0.0180        | 0.0180        |                    | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8672        |
| <b>Total</b> | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>1.9300e-003</b> | <b>0.0180</b> | <b>0.0199</b> | <b>2.9000e-004</b> | <b>0.0167</b> | <b>0.0170</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8672</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      | 8.0000e-005        | 2.7600e-003        | 6.0000e-004        | 1.0000e-005        | 1.5000e-004        | 1.0000e-005        | 1.6000e-004        | 4.0000e-005        | 1.0000e-005        | 5.0000e-005        | 0.0000        | 0.7016        | 0.7016        | 6.0000e-005        | 0.0000        | 0.7032        |
| 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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.2000e-003        | 1.0000e-005        | 1.2100e-003        | 3.2000e-004        | 1.0000e-005        | 3.3000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>6.7000e-004</b> | <b>3.2100e-003</b> | <b>4.9900e-003</b> | <b>2.0000e-005</b> | <b>1.3500e-003</b> | <b>2.0000e-005</b> | <b>1.3700e-003</b> | <b>3.6000e-004</b> | <b>2.0000e-005</b> | <b>3.8000e-004</b> | <b>0.0000</b> | <b>1.8244</b> | <b>1.8244</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.8269</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 |               |               |               |                    | 8.3000e-004        | 0.0000        | 8.3000e-004   | 1.3000e-004        | 0.0000        | 1.3000e-004   | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0351        | 0.3578        | 0.2206        | 3.9000e-004        |                    | 0.0180        | 0.0180        |                    | 0.0167        | 0.0167        | 0.0000        | 34.6263        | 34.6263        | 9.6300e-003        | 0.0000        | 34.8671        |
| <b>Total</b>  | <b>0.0351</b> | <b>0.3578</b> | <b>0.2206</b> | <b>3.9000e-004</b> | <b>8.3000e-004</b> | <b>0.0180</b> | <b>0.0188</b> | <b>1.3000e-004</b> | <b>0.0167</b> | <b>0.0168</b> | <b>0.0000</b> | <b>34.6263</b> | <b>34.6263</b> | <b>9.6300e-003</b> | <b>0.0000</b> | <b>34.8671</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  | 8.0000e-005 | 2.7600e-003 | 6.0000e-004 | 1.0000e-005 | 1.5000e-004   | 1.0000e-005  | 1.6000e-004 | 4.0000e-005    | 1.0000e-005   | 5.0000e-005 | 0.0000   | 0.7016    | 0.7016    | 6.0000e-005 | 0.0000 | 0.7032 |
| 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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.1400e-003   | 1.0000e-005  | 1.1500e-003 | 3.0000e-004    | 1.0000e-005   | 3.1000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 6.7000e-004 | 3.2100e-003 | 4.9900e-003 | 2.0000e-005 | 1.2900e-003   | 2.0000e-005  | 1.3100e-003 | 3.4000e-004    | 2.0000e-005   | 3.6000e-004 | 0.0000   | 1.8244    | 1.8244    | 1.0000e-004 | 0.0000 | 1.8269 |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category      | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Fugitive Dust |         |        |        |             | 0.0903        | 0.0000       | 0.0903     | 0.0497         | 0.0000        | 0.0497      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 |               | 0.0120       | 0.0120     |                | 0.0110        | 0.0110      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |
| Total         | 0.0217  | 0.2279 | 0.1103 | 1.9000e-004 | 0.0903        | 0.0120       | 0.1023     | 0.0497         | 0.0110        | 0.0607      | 0.0000   | 17.0843   | 17.0843   | 5.4100e-003 | 0.0000 | 17.2195 |

#### 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|



|              |                    |                    |                    |                    |                    |                    |                    |                    |               |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Worker       | 3.5000e-004        | 2.7000e-004        | 2.6300e-003        | 1.0000e-005        | 6.8000e-004        | 1.0000e-005        | 6.9000e-004        | 1.8000e-004        | 0.0000        | 1.9000e-004        | 0.0000        | 0.6737        | 0.6737        | 2.0000e-005        | 0.0000        | 0.6742        |
| <b>Total</b> | <b>3.5000e-004</b> | <b>2.7000e-004</b> | <b>2.6300e-003</b> | <b>1.0000e-005</b> | <b>6.8000e-004</b> | <b>1.0000e-005</b> | <b>6.9000e-004</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>0.6737</b> | <b>0.6737</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6742</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1518        | 0.0000        | 0.1518        | 0.0629         | 0.0000        | 0.0629        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0829        | 0.9541        | 0.5841        | 1.0900e-003        |               | 0.0417        | 0.0417        |                | 0.0384        | 0.0384        | 0.0000        | 97.4773        | 97.4773        | 0.0308        | 0.0000        | 98.2483        |
| <b>Total</b>  | <b>0.0829</b> | <b>0.9541</b> | <b>0.5841</b> | <b>1.0900e-003</b> | <b>0.1518</b> | <b>0.0417</b> | <b>0.1935</b> | <b>0.0629</b>  | <b>0.0384</b> | <b>0.1013</b> | <b>0.0000</b> | <b>97.4773</b> | <b>97.4773</b> | <b>0.0308</b> | <b>0.0000</b> | <b>98.2483</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       | 1.3800e-003        | 1.0600e-003        | 0.0102        | 3.0000e-005        | 2.8100e-003        | 2.0000e-005        | 2.8300e-003        | 7.5000e-004        | 2.0000e-005        | 7.6000e-004        | 0.0000        | 2.6197        | 2.6197        | 8.0000e-005        | 0.0000        | 2.6218        |
| <b>Total</b> | <b>1.3800e-003</b> | <b>1.0600e-003</b> | <b>0.0102</b> | <b>3.0000e-005</b> | <b>2.8100e-003</b> | <b>2.0000e-005</b> | <b>2.8300e-003</b> | <b>7.5000e-004</b> | <b>2.0000e-005</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>2.6197</b> | <b>2.6197</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>2.6218</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0649        | 0.0000        | 0.0649        | 0.0269         | 0.0000        | 0.0269        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0829        | 0.9541        | 0.5841        | 1.0900e-003        |               | 0.0417        | 0.0417        |                | 0.0384        | 0.0384        | 0.0000        | 97.4772        | 97.4772        | 0.0308        | 0.0000        | 98.2482        |
| <b>Total</b>  | <b>0.0829</b> | <b>0.9541</b> | <b>0.5841</b> | <b>1.0900e-003</b> | <b>0.0649</b> | <b>0.0417</b> | <b>0.1066</b> | <b>0.0269</b>  | <b>0.0384</b> | <b>0.0653</b> | <b>0.0000</b> | <b>97.4772</b> | <b>97.4772</b> | <b>0.0308</b> | <b>0.0000</b> | <b>98.2482</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       | 1.3800e-003        | 1.0600e-003        | 0.0102        | 3.0000e-005        | 2.6600e-003        | 2.0000e-005        | 2.6800e-003        | 7.1000e-004        | 2.0000e-005        | 7.3000e-004        | 0.0000        | 2.6197        | 2.6197        | 8.0000e-005        | 0.0000        | 2.6218        |
| <b>Total</b> | <b>1.3800e-003</b> | <b>1.0600e-003</b> | <b>0.0102</b> | <b>3.0000e-005</b> | <b>2.6600e-003</b> | <b>2.0000e-005</b> | <b>2.6800e-003</b> | <b>7.1000e-004</b> | <b>2.0000e-005</b> | <b>7.3000e-004</b> | <b>0.0000</b> | <b>2.6197</b> | <b>2.6197</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>2.6218</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

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

| Category     | tons/yr       |               |               |                    |  |               |               |  |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Off-Road     | 0.2078        | 1.8549        | 1.5104        | 2.3700e-003        |  | 0.1135        | 0.1135        |  | 0.1067        | 0.1067        | 0.0000        | 206.8917        | 206.8917        | 0.0504        | 0.0000        | 208.1517        |
| <b>Total</b> | <b>0.2078</b> | <b>1.8549</b> | <b>1.5104</b> | <b>2.3700e-003</b> |  | <b>0.1135</b> | <b>0.1135</b> |  | <b>0.1067</b> | <b>0.1067</b> | <b>0.0000</b> | <b>206.8917</b> | <b>206.8917</b> | <b>0.0504</b> | <b>0.0000</b> | <b>208.1517</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       | 0.0350        | 0.9389        | 0.2522        | 2.0400e-003        | 0.0497        | 6.5000e-003        | 0.0562        | 0.0143         | 6.2200e-003        | 0.0206        | 0.0000        | 198.7271        | 198.7271        | 0.0160        | 0.0000        | 199.1258        |
| Worker       | 0.1214        | 0.0932        | 0.9012        | 2.5500e-003        | 0.2470        | 1.8000e-003        | 0.2488        | 0.0656         | 1.6600e-003        | 0.0673        | 0.0000        | 230.5369        | 230.5369        | 7.4100e-003   | 0.0000        | 230.7223        |
| <b>Total</b> | <b>0.1565</b> | <b>1.0320</b> | <b>1.1534</b> | <b>4.5900e-003</b> | <b>0.2966</b> | <b>8.3000e-003</b> | <b>0.3049</b> | <b>0.0800</b>  | <b>7.8800e-003</b> | <b>0.0878</b> | <b>0.0000</b> | <b>429.2641</b> | <b>429.2641</b> | <b>0.0234</b> | <b>0.0000</b> | <b>429.8481</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     | 0.2078        | 1.8549        | 1.5104        | 2.3700e-003        |               | 0.1135        | 0.1135        |                | 0.1067        | 0.1067        | 0.0000        | 206.8915        | 206.8915        | 0.0504        | 0.0000        | 208.1515        |
| <b>Total</b> | <b>0.2078</b> | <b>1.8549</b> | <b>1.5104</b> | <b>2.3700e-003</b> |               | <b>0.1135</b> | <b>0.1135</b> |                | <b>0.1067</b> | <b>0.1067</b> | <b>0.0000</b> | <b>206.8915</b> | <b>206.8915</b> | <b>0.0504</b> | <b>0.0000</b> | <b>208.1515</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   | 0.0350  | 0.9389 | 0.2522 | 2.0400e-003 | 0.0475        | 6.5000e-003  | 0.0540     | 0.0138         | 6.2200e-003   | 0.0200      | 0.0000   | 198.7271  | 198.7271  | 0.0160      | 0.0000 | 199.1258 |
| Worker   | 0.1214  | 0.0932 | 0.9012 | 2.5500e-003 | 0.2342        | 1.8000e-003  | 0.2360     | 0.0625         | 1.6600e-003   | 0.0641      | 0.0000   | 230.5369  | 230.5369  | 7.4100e-003 | 0.0000 | 230.7223 |
| Total    | 0.1565  | 1.0320 | 1.1534 | 4.5900e-003 | 0.2817        | 8.3000e-003  | 0.2900     | 0.0763         | 7.8800e-003   | 0.0842      | 0.0000   | 429.2641  | 429.2641  | 0.0234      | 0.0000 | 429.8481 |

### 3.6 Paving - 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 | 0.0145      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |
| Paving   | 9.6000e-003 |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Total    | 0.0241      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |

#### 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   | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |
| Total    | 5.9000e-004 | 4.5000e-004 | 4.3900e-003 | 1.0000e-005 | 1.2000e-003   | 1.0000e-005  | 1.2100e-003 | 3.2000e-004    | 1.0000e-005   | 3.3000e-004 | 0.0000   | 1.1227    | 1.1227    | 4.0000e-005 | 0.0000 | 1.1237 |

**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 | 0.0145      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |
| Paving   | 9.6000e-003 |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Total    | 0.0241      | 0.1524 | 0.1467 | 2.3000e-004 |               | 8.2500e-003  | 8.2500e-003 |                | 7.5900e-003   | 7.5900e-003 | 0.0000   | 20.4752   | 20.4752   | 6.4800e-003 | 0.0000 | 20.6371 |

**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       | 5.9000e-004        | 4.5000e-004        | 4.3900e-003        | 1.0000e-005        | 1.1400e-003        | 1.0000e-005        | 1.1500e-003        | 3.0000e-004        | 1.0000e-005        | 3.1000e-004        | 0.0000        | 1.1227        | 1.1227        | 4.0000e-005        | 0.0000        | 1.1237        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.5000e-004</b> | <b>4.3900e-003</b> | <b>1.0000e-005</b> | <b>1.1400e-003</b> | <b>1.0000e-005</b> | <b>1.1500e-003</b> | <b>3.0000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.1227</b> | <b>1.1227</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.1237</b> |

3.7 Architectural Coating - 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         |                |                |                    |               |                |
| Archit. Coating | 4.7436        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0176        | 0.1211        | 0.1215        | 2.0000e-004        |               | 8.5000e-003        | 8.5000e-003        |                | 8.5000e-003        | 8.5000e-003        | 0.0000        | 16.8515        | 16.8515        | 1.4200e-003        | 0.0000        | 16.8871        |
| <b>Total</b>    | <b>4.7611</b> | <b>0.1211</b> | <b>0.1215</b> | <b>2.0000e-004</b> |               | <b>8.5000e-003</b> | <b>8.5000e-003</b> |                | <b>8.5000e-003</b> | <b>8.5000e-003</b> | <b>0.0000</b> | <b>16.8515</b> | <b>16.8515</b> | <b>1.4200e-003</b> | <b>0.0000</b> | <b>16.8871</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   | 0.0182  | 0.0140 | 0.1352 | 3.8000e-004 | 0.0371        | 2.7000e-004  | 0.0373     | 9.8400e-003    | 2.5000e-004   | 0.0101      | 0.0000   | 34.5805   | 34.5805   | 1.1100e-003 | 0.0000 | 34.6083 |

|       |        |        |        |             |        |             |        |             |             |        |        |         |         |             |        |         |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|--------|--------|---------|---------|-------------|--------|---------|
| Total | 0.0182 | 0.0140 | 0.1352 | 3.8000e-004 | 0.0371 | 2.7000e-004 | 0.0373 | 9.8400e-003 | 2.5000e-004 | 0.0101 | 0.0000 | 34.5805 | 34.5805 | 1.1100e-003 | 0.0000 | 34.6083 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|-------------|-------------|--------|--------|---------|---------|-------------|--------|---------|

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 | 4.7436  |        |        |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road        | 0.0176  | 0.1211 | 0.1215 | 2.0000e-004 |               | 8.5000e-003  | 8.5000e-003 |                | 8.5000e-003   | 8.5000e-003 | 0.0000   | 16.8515   | 16.8515   | 1.4200e-003 | 0.0000 | 16.8870 |
| Total           | 4.7611  | 0.1211 | 0.1215 | 2.0000e-004 |               | 8.5000e-003  | 8.5000e-003 |                | 8.5000e-003   | 8.5000e-003 | 0.0000   | 16.8515   | 16.8515   | 1.4200e-003 | 0.0000 | 16.8870 |

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   | 0.0182  | 0.0140 | 0.1352 | 3.8000e-004 | 0.0351        | 2.7000e-004  | 0.0354     | 9.3700e-003    | 2.5000e-004   | 9.6200e-003 | 0.0000   | 34.5805   | 34.5805   | 1.1100e-003 | 0.0000 | 34.6083 |
| Total    | 0.0182  | 0.0140 | 0.1352 | 3.8000e-004 | 0.0351        | 2.7000e-004  | 0.0354     | 9.3700e-003    | 2.5000e-004   | 9.6200e-003 | 0.0000   | 34.5805   | 34.5805   | 1.1100e-003 | 0.0000 | 34.6083 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.6442  | 2.8904 | 7.7536 | 0.0253 | 2.1014        | 0.0254       | 2.1268     | 0.5628         | 0.0238        | 0.5866      | 0.0000   | 2,324.8353 | 2,324.8353 | 0.1265 | 0.0000 | 2,327.9965 |
| Unmitigated | 0.6442  | 2.8904 | 7.7536 | 0.0253 | 2.1014        | 0.0254       | 2.1268     | 0.5628         | 0.0238        | 0.5866      | 0.0000   | 2,324.8353 | 2,324.8353 | 0.1265 | 0.0000 | 2,327.9965 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
| Land Use            | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

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 |        |        |             |               |              |            |                |               |             | M1/yr    |           |           |             |             |          |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 447.7862  | 447.7862  | 0.0180      | 3.7300e-003 | 449.3480 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 447.7862  | 447.7862  | 0.0180      | 3.7300e-003 | 449.3480 |
| NaturalGas Mitigated    | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |
| NaturalGas Unmitigated  | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |

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 |        |        |             |               |              |            |                |               |             | M1/yr    |           |           |             |             |          |
| Apartments Low Rise | 3.32275e+006   | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |
| Parking Lot         | 0              | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Total               |                | 0.0179  | 0.1531 | 0.0652 | 9.8000e-004 |               | 0.0124       | 0.0124     |                | 0.0124        | 0.0124      | 0.0000   | 177.3143  | 177.3143  | 3.4000e-003 | 3.2500e-003 | 178.3680 |

Mitigated

|                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|---------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use            | kBTU/yr         | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Apartments Low Rise | 3.32275e+006    | 0.0179        | 0.1531        | 0.0652        | 9.8000e-004        |               | 0.0124        | 0.0124        |                | 0.0124        | 0.0124        | 0.0000        | 177.3143        | 177.3143        | 3.4000e-003        | 3.2500e-003        | 178.3680        |
| Parking Lot         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>        |                 | <b>0.0179</b> | <b>0.1531</b> | <b>0.0652</b> | <b>9.8000e-004</b> |               | <b>0.0124</b> | <b>0.0124</b> |                | <b>0.0124</b> | <b>0.0124</b> | <b>0.0000</b> | <b>177.3143</b> | <b>177.3143</b> | <b>3.4000e-003</b> | <b>3.2500e-003</b> | <b>178.3680</b> |

5.3 Energy by Land Use - Electricity

Unmitigated

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 1.25622e+006    | 410.5431        | 0.0165        | 3.4200e-003        | 411.9750        |
| Parking Lot         | 113960          | 37.2431         | 1.5000e-003   | 3.1000e-004        | 37.3730         |
| <b>Total</b>        |                 | <b>447.7862</b> | <b>0.0180</b> | <b>3.7300e-003</b> | <b>449.3481</b> |

Mitigated

|                     | Electricity Use | Total CO2 | CH4    | N2O         | CO2e     |
|---------------------|-----------------|-----------|--------|-------------|----------|
| Land Use            | kWh/yr          | MT/yr     |        |             |          |
| Apartments Low Rise | 1.25622e+006    | 410.5431  | 0.0165 | 3.4200e-003 | 411.9750 |

|              |        |                 |               |                    |                 |
|--------------|--------|-----------------|---------------|--------------------|-----------------|
| Parking Lot  | 113960 | 37.2431         | 1.5000e-003   | 3.1000e-004        | 37.3730         |
| <b>Total</b> |        | <b>447.7862</b> | <b>0.0180</b> | <b>3.7300e-003</b> | <b>449.3481</b> |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

## Use only Natural Gas Hearths

|             | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | tons/yr |        |         |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Mitigated   | 1.7405  | 0.2068 | 2.2898  | 1.2700e-003 |               | 0.0268       | 0.0268     |                | 0.0268        | 0.0268      | 0.0000   | 213.4346  | 213.4346  | 7.5600e-003 | 3.8500e-003 | 214.7700 |
| Unmitigated | 20.2922 | 0.3883 | 25.1389 | 0.0417      |               | 3.2266       | 3.2266     |                | 3.2266        | 3.2266      | 305.7555 | 131.8341  | 437.5895  | 0.2857      | 0.0241      | 451.8990 |

## 6.2 Area by SubCategory

**Unmitigated**

[illegible]

|              |                |               |                |               |  |               |               |  |               |               |                 |                 |                 |               |               |                 |
|--------------|----------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Hearth       | 18.5729        | 0.3627        | 22.9262        | 0.0415        |  | 3.2145        | 3.2145        |  | 3.2145        | 3.2145        | 305.7555        | 128.2294        | 433.9849        | 0.2822        | 0.0241        | 448.2058        |
| Landscaping  | 0.0679         | 0.0256        | 2.2127         | 1.2000e-004   |  | 0.0122        | 0.0122        |  | 0.0122        | 0.0122        | 0.0000          | 3.6047          | 3.6047          | 3.5400e-003   | 0.0000        | 3.6932          |
| <b>Total</b> | <b>20.2922</b> | <b>0.3883</b> | <b>25.1389</b> | <b>0.0417</b> |  | <b>3.2266</b> | <b>3.2266</b> |  | <b>3.2266</b> | <b>3.2266</b> | <b>305.7555</b> | <b>131.8341</b> | <b>437.5895</b> | <b>0.2857</b> | <b>0.0241</b> | <b>451.8990</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 | 0.4744        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Consumer Products     | 1.1771        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hearth                | 0.0212        | 0.1812        | 0.0771        | 1.1600e-003        |               | 0.0147        | 0.0147        |                | 0.0147        | 0.0147        | 0.0000        | 209.8299        | 209.8299        | 4.0200e-003        | 3.8500e-003        | 211.0768        |
| Landscaping           | 0.0679        | 0.0256        | 2.2127        | 1.2000e-004        |               | 0.0122        | 0.0122        |                | 0.0122        | 0.0122        | 0.0000        | 3.6047          | 3.6047          | 3.5400e-003        | 0.0000             | 3.6932          |
| <b>Total</b>          | <b>1.7405</b> | <b>0.2068</b> | <b>2.2898</b> | <b>1.2800e-003</b> |               | <b>0.0268</b> | <b>0.0268</b> |                | <b>0.0268</b> | <b>0.0268</b> | <b>0.0000</b> | <b>213.4346</b> | <b>213.4346</b> | <b>7.5600e-003</b> | <b>3.8500e-003</b> | <b>214.7700</b> |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 112.0008  | 0.5071 | 0.0128 | 128.4803 |
| Unmitigated | 132.3308  | 0.6335 | 0.0159 | 152.9034 |

7.2 Water by Land Use

Unmitigated

|                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O    | CO2e     |
|---------------------|--------------------|-----------|--------|--------|----------|
| Land Use            | Mgal               | MT/yr     |        |        |          |
| Apartments Low Rise | 19.2856 / 12.1583  | 132.3308  | 0.6335 | 0.0159 | 152.9034 |
| Parking Lot         | 0 / 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Total               |                    | 132.3308  | 0.6335 | 0.0159 | 152.9034 |

Mitigated

|  | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|-----|------|
|--|--------------------|-----------|-----|-----|------|



| Land Use            | Mgal              | MT/yr           |               |               |                 |
|---------------------|-------------------|-----------------|---------------|---------------|-----------------|
| Apartments Low Rise | 15.4285 / 11.4167 | 112.0008        | 0.5071        | 0.0128        | 128.4803        |
| Parking Lot         | 0 / 0             | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b>        |                   | <b>112.0008</b> | <b>0.5071</b> | <b>0.0128</b> | <b>128.4803</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 13.8196   | 0.8167 | 0.0000 | 34.2375 |
| Unmitigated | 27.6393   | 1.6334 | 0.0000 | 68.4751 |

### 8.2 Waste by Land Use

#### Unmitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |

|                     |        |                |               |               |                |
|---------------------|--------|----------------|---------------|---------------|----------------|
| Apartments Low Rise | 136.16 | 27.6393        | 1.6334        | 0.0000        | 68.4751        |
| Parking Lot         | 0      | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |        | <b>27.6393</b> | <b>1.6334</b> | <b>0.0000</b> | <b>68.4751</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use            | tons           | MT/yr          |               |               |                |
| Apartments Low Rise | 68.08          | 13.8196        | 0.8167        | 0.0000        | 34.2375        |
| Parking Lot         | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>        |                | <b>13.8196</b> | <b>0.8167</b> | <b>0.0000</b> | <b>34.2375</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Encinitas HE - #10 - San Diego County, Summer

**Encinitas HE - #10**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 16.90       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       | <b>Operational Year</b>             | 2020  |                                     |       |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use - Site 10 = approx 16.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 370.00        | 176.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 132.00     |
| tblConstructionPhase   | PhaseEndDate                    | 9/28/2020     | 4/29/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 8/31/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 10/26/2020    | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 9/1/2020      | 4/2/2019   |
| tblConstructionPhase   | PhaseStartDate                  | 4/2/2019      | 4/30/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 9/29/2020     | 6/29/2019  |
| tblLandUse             | LotAcreage                      | 18.50         | 16.90      |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 76.5400 | 54.5750 | 34.7212 | 0.0901 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 9,044.0081 | 9,044.0081 | 1.9482 | 0.0000 | 9,068.1599 |
| Maximum | 76.5400 | 54.5750 | 34.7212 | 0.0901 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 9,044.0081 | 9,044.0081 | 1.9482 | 0.0000 | 9,068.1599 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 76.5400 | 54.5750 | 34.7212 | 0.0901 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 9,044.0081 | 9,044.0081 | 1.9482 | 0.0000 | 9,068.1599 |
| Maximum | 76.5400 | 54.5750 | 34.7212 | 0.0901 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 9,044.0081 | 9,044.0081 | 1.9482 | 0.0000 | 9,068.1599 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 462.7998 | 9.1307  | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791  | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |
| Energy   | 0.0982   | 0.8389  | 0.3570   | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |            | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 4.0469   | 16.6747 | 47.5156  | 0.1574      | 12.8325       | 0.1512       | 12.9838    | 3.4300         | 0.1419        | 3.5719      |            | 15,968.6039 | 15,968.6039 | 0.8374 |        | 15,989.5396 |
| Total    | 466.9449 | 26.6443 | 631.6333 | 1.1771      | 12.8325       | 78.7558      | 91.5883    | 3.4300         | 78.7465       | 82.1765     | 8,220.4323 | 20,531.2725 | 28,751.7048 | 8.4874 | 0.6662 | 29,162.4276 |

Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 10.3200        | 4.7033         | 26.4657        | 0.0295        |                | 0.4923        | 0.4923         |                | 0.4923        | 0.4923        | 0.0000        | 5,685.5614         | 5,685.5614         | 0.1515        | 0.1034        | 5,720.1694         |
| Energy       | 0.0982         | 0.8389         | 0.3570         | 5.3500e-003   |                | 0.0678        | 0.0678         |                | 0.0678        | 0.0678        |               | 1,070.9895         | 1,070.9895         | 0.0205        | 0.0196        | 1,077.3539         |
| Mobile       | 4.0469         | 16.6747        | 47.5156        | 0.1574        | 12.8325        | 0.1512        | 12.9838        | 3.4300         | 0.1419        | 3.5719        |               | 15,968.6039        | 15,968.6039        | 0.8374        |               | 15,989.5396        |
| <b>Total</b> | <b>14.4651</b> | <b>22.2169</b> | <b>74.3383</b> | <b>0.1923</b> | <b>12.8325</b> | <b>0.7114</b> | <b>13.5439</b> | <b>3.4300</b>  | <b>0.7021</b> | <b>4.1321</b> | <b>0.0000</b> | <b>22,725.1548</b> | <b>22,725.1548</b> | <b>1.0094</b> | <b>0.1231</b> | <b>22,787.0628</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>96.90</b> | <b>16.62</b> | <b>88.23</b> | <b>83.67</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-10.69</b> | <b>20.96</b> | <b>88.11</b> | <b>81.53</b> | <b>21.86</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 4/1/2019   | 5             | 35       |                   |
| 4            | Building Construction | Building Construction | 4/30/2019  | 12/31/2019 | 5             | 176      |                   |
| 5            | Paving                | Paving                | 4/2/2019   | 4/29/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/29/2019  | 12/31/2019 | 5             | 132      |                   |

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

**Acres of Grading (Grading Phase): 87.5**

**Acres of Paving: 7.33**

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

| Phase Name       | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition       | 6                       | 15.00              | 0.00               | 18.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |



|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 350.00 | 85.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 70.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.1934        | 0.0000       | 0.1934     | 0.0293         | 0.0000        | 0.0293      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.1934        | 1.7949       | 1.9883     | 0.0293         | 1.6697        | 1.6990      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |               |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|---------------|--|-----------------|
| Hauling      | 7.8100e-003   | 0.2703        | 0.0584        | 7.1000e-004        | 0.0157        | 1.0200e-003        | 0.0168        | 4.3100e-003   | 9.8000e-004        | 5.2900e-003   |  | 77.8925         | 77.8925         | 6.8900e-003   |  | 78.0649         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000        |  | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 130.5300        | 130.5300        | 4.1700e-003   |  | 130.6342        |
| <b>Total</b> | <b>0.0667</b> | <b>0.3114</b> | <b>0.5225</b> | <b>2.0200e-003</b> | <b>0.1390</b> | <b>1.9000e-003</b> | <b>0.1409</b> | <b>0.0370</b> | <b>1.7900e-003</b> | <b>0.0388</b> |  | <b>208.4225</b> | <b>208.4225</b> | <b>0.0111</b> |  | <b>208.6990</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0827        | 0.0000        | 0.0827        | 0.0125         | 0.0000        | 0.0125        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0827</b> | <b>1.7949</b> | <b>1.8776</b> | <b>0.0125</b>  | <b>1.6697</b> | <b>1.6822</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

**Mitigated Construction Off-Site**

|          | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 7.8100e-003 | 0.2703 | 0.0584 | 7.1000e-004 | 0.0150        | 1.0200e-003  | 0.0160     | 4.1300e-003    | 9.8000e-004   | 5.1100e-003 |          | 77.8925  | 77.8925   | 6.8900e-003 |     | 78.0649  |
| Vendor   | 0.0000      | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589      | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |        |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|
| Total | 0.0667 | 0.3114 | 0.5225 | 2.0200e-003 | 0.1318 | 1.9000e-003 | 0.1337 | 0.0352 | 1.7900e-003 | 0.0370 |  | 208.4225 | 208.4225 | 0.0111 |  | 208.6990 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |
| Total    | 0.0707 | 0.0493 | 0.5569 | 1.5700e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 156.6359 | 156.6359  | 5.0000e-003 |     | 156.7610 |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0707        | 0.0493        | 0.5569        | 1.5700e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 156.6359        | 156.6359        | 5.0000e-003        |     | 156.7610        |
| <b>Total</b> | <b>0.0707</b> | <b>0.0493</b> | <b>0.5569</b> | <b>1.5700e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>156.6359</b> | <b>156.6359</b> | <b>5.0000e-003</b> |     | <b>156.7610</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |
| Total    | 0.0785 | 0.0548 | 0.6188 | 1.7500e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 174.0399 | 174.0399  | 5.5600e-003 |     | 174.1789 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.3912        | 10.5390        | 2.7208         | 0.0235        | 0.5754        | 0.0733        | 0.6487        | 0.1657         | 0.0701        | 0.2358        |          | 2,516.1414        | 2,516.1414        | 0.1943        |     | 2,520.9979        |
| Worker       | 1.3743        | 0.9591         | 10.8294        | 0.0306        | 2.8752        | 0.0205        | 2.8957        | 0.7626         | 0.0189        | 0.7815        |          | 3,045.6987        | 3,045.6987        | 0.0973        |     | 3,048.1301        |
| <b>Total</b> | <b>1.7655</b> | <b>11.4980</b> | <b>13.5502</b> | <b>0.0541</b> | <b>3.4506</b> | <b>0.0938</b> | <b>3.5444</b> | <b>0.9283</b>  | <b>0.0890</b> | <b>1.0173</b> |          | <b>5,561.8401</b> | <b>5,561.8401</b> | <b>0.2915</b> |     | <b>5,569.1280</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.5802        | 2,591.5802        | 0.6313        |     | 2,607.3635        |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.5802</b> | <b>2,591.5802</b> | <b>0.6313</b> |     | <b>2,607.3635</b> |

**Mitigated Construction Off-Site**

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |                |                |               |               |               |               |               |               |               |  |                   |                   |               |  |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Vendor       | 0.3912        | 10.5390        | 2.7208         | 0.0235        | 0.5508        | 0.0733        | 0.6241        | 0.1596        | 0.0701        | 0.2297        |  | 2,516.1414        | 2,516.1414        | 0.1943        |  | 2,520.9979        |
| Worker       | 1.3743        | 0.9591         | 10.8294        | 0.0306        | 2.7252        | 0.0205        | 2.7457        | 0.7258        | 0.0189        | 0.7447        |  | 3,045.6987        | 3,045.6987        | 0.0973        |  | 3,048.1301        |
| <b>Total</b> | <b>1.7655</b> | <b>11.4980</b> | <b>13.5502</b> | <b>0.0541</b> | <b>3.2761</b> | <b>0.0938</b> | <b>3.3699</b> | <b>0.8854</b> | <b>0.0890</b> | <b>0.9745</b> |  | <b>5,561.8401</b> | <b>5,561.8401</b> | <b>0.2915</b> |  | <b>5,569.1280</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        |          | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.9602        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.4147</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> |          | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0411        | 0.4641        | 1.3100e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327         | 8.1000e-004        | 0.0335        |          | 130.5300        | 130.5300        | 4.1700e-003        |     | 130.6342        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0411</b> | <b>0.4641</b> | <b>1.3100e-003</b> | <b>0.1232</b> | <b>8.8000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.1000e-004</b> | <b>0.0335</b> |          | <b>130.5300</b> | <b>130.5300</b> | <b>4.1700e-003</b> |     | <b>130.6342</b> |



### Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 1.4544 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |
| Paving   | 0.9602 |         |         |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Total    | 2.4147 | 15.2441 | 14.6648 | 0.0228 |               | 0.8246       | 0.8246     |                | 0.7586        | 0.7586      | 0.0000   | 2,257.0025 | 2,257.0025 | 0.7141 |     | 2,274.8548 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |
| Total    | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 71.8720        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>72.1384</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2749        | 0.1918        | 2.1659        | 6.1200e-003        | 0.5750        | 4.1000e-003        | 0.5791        | 0.1525         | 3.7800e-003        | 0.1563        |          | 609.1397        | 609.1397        | 0.0195        |     | 609.6260        |
| <b>Total</b> | <b>0.2749</b> | <b>0.1918</b> | <b>2.1659</b> | <b>6.1200e-003</b> | <b>0.5750</b> | <b>4.1000e-003</b> | <b>0.5791</b> | <b>0.1525</b>  | <b>3.7800e-003</b> | <b>0.1563</b> |          | <b>609.1397</b> | <b>609.1397</b> | <b>0.0195</b> |     | <b>609.6260</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |        |
| Archit. Coating | 71.8720 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |          | 0.0000    |     |     | 0.0000 |

|              |                |               |               |                    |  |               |               |  |               |               |               |                 |                 |               |  |                 |
|--------------|----------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| Off-Road     | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |  | 0.1288        | 0.1288        |  | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |  | 282.0423        |
| <b>Total</b> | <b>72.1384</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |  | <b>0.1288</b> | <b>0.1288</b> |  | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |  | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.2749        | 0.1918        | 2.1659        | 6.1200e-003        | 0.5451        | 4.1000e-003        | 0.5492        | 0.1452         | 3.7800e-003        | 0.1489        |          | 609.1397        | 609.1397        | 0.0195        |     | 609.6260        |
| <b>Total</b> | <b>0.2749</b> | <b>0.1918</b> | <b>2.1659</b> | <b>6.1200e-003</b> | <b>0.5451</b> | <b>4.1000e-003</b> | <b>0.5492</b> | <b>0.1452</b>  | <b>3.7800e-003</b> | <b>0.1489</b> |          | <b>609.1397</b> | <b>609.1397</b> | <b>0.0195</b> |     | <b>609.6260</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 4.0469 | 16.6747 | 47.5156 | 0.1574 | 12.8325       | 0.1512       | 12.9838    | 3.4300         | 0.1419        | 3.5719      |          | 15,968.6039 | 15,968.6039 | 0.8374 |     | 15,989.5396 |

|             |        |         |         |        |         |        |         |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 4.0469 | 16.6747 | 47.5156 | 0.1574 | 12.8325 | 0.1512 | 12.9838 | 3.4300 | 0.1419 | 3.5719 |  | 15,968.6039 | 15,968.6039 | 0.8374 |  | 15,989.5396 |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |            |            |        |        |            |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|
| NaturalGas Mitigated   | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| NaturalGas Unmitigated | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9103.41        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9.10341        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Mitigated   | 10.3200  | 4.7033 | 26.4657  | 0.0295 |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000     | 5,685.5614 | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Unmitigated | 462.7998 | 9.1307 | 583.7607 | 1.0144 |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Architectural Coating | 2.5992   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Consumer Products     | 6.4497   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Hearth                | 452.9969 | 8.8465 | 559.1755 | 1.0131      |               | 78.4017      | 78.4017    |                | 78.4017       | 78.4017     | 8,220.4323 | 3,447.5294 | 11,667.9617 | 7.5861 | 0.6466 | 12,050.3006 |
| Landscaping           | 0.7540   | 0.2842 | 24.5852  | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |            | 44.1496    | 44.1496     | 0.0434 |        | 45.2335     |
| Total                 | 462.7998 | 9.1307 | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6294 | 0.6466 | 12,095.5341 |

Mitigated

|                       | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day  |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.5992  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 6.4497  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.5171  | 4.4191 | 1.8805  | 0.0282      |               | 0.3573       | 0.3573     |                | 0.3573        | 0.3573      | 0.0000   | 5,641.4118 | 5,641.4118 | 0.1081 | 0.1034 | 5,674.9359 |
| Landscaping           | 0.7540  | 0.2842 | 24.5852 | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |          | 44.1496    | 44.1496    | 0.0434 |        | 45.2335    |
| Total                 | 10.3200 | 4.7033 | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614 | 5,685.5614 | 0.1515 | 0.1034 | 5,720.1693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

#### Boilers

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

#### User Defined Equipment

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

### 11.0 Vegetation



Encinitas HE - #10 - San Diego County, Winter

## Encinitas HE - #10

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 296.00 | Dwelling Unit | 16.90       | 296,000.00         | 847        |
| Parking Lot         | 814.00 | Space         | 7.33        | 325,600.00         | 0          |

### 1.2 Other Project Characteristics

|                                |                          |                                |       |                                  |       |
|--------------------------------|--------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                    | <b>Wind Speed (m/s)</b>        | 2.6   | <b>Precipitation Freq (Days)</b> | 40    |
| <b>Climate Zone</b>            | 13                       | <b>Operational Year</b>        | 2020  |                                  |       |
| <b>Utility Company</b>         | San Diego Gas & Electric |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 720.49                   | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

Project Characteristics -

Land Use - Site 10 = approx 16.9 ac

Construction Phase - conservative 12 month schedule

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name             | Column Name                     | Default Value | New Value  |
|------------------------|---------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6          |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12         |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15         |
| tblConstructionPhase   | NumDays                         | 370.00        | 176.00     |
| tblConstructionPhase   | NumDays                         | 20.00         | 132.00     |
| tblConstructionPhase   | PhaseEndDate                    | 9/28/2020     | 4/29/2019  |
| tblConstructionPhase   | PhaseEndDate                    | 8/31/2020     | 12/31/2019 |
| tblConstructionPhase   | PhaseEndDate                    | 10/26/2020    | 12/31/2019 |
| tblConstructionPhase   | PhaseStartDate                  | 9/1/2020      | 4/2/2019   |
| tblConstructionPhase   | PhaseStartDate                  | 4/2/2019      | 4/30/2019  |
| tblConstructionPhase   | PhaseStartDate                  | 9/29/2020     | 6/29/2019  |
| tblLandUse             | LotAcreage                      | 18.50         | 16.90      |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 76.7728 | 54.5817 | 34.3023 | 0.0872 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 8,756.3181 | 8,756.3181 | 1.9479 | 0.0000 | 8,780.6298 |
| Maximum | 76.7728 | 54.5817 | 34.3023 | 0.0872 | 18.2141       | 2.3914       | 20.6055    | 9.9699         | 2.2001        | 12.1700     | 0.0000   | 8,756.3181 | 8,756.3181 | 1.9479 | 0.0000 | 8,780.6298 |

Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 76.7728 | 54.5817 | 34.3023 | 0.0872 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 8,756.3181 | 8,756.3181 | 1.9479 | 0.0000 | 8,780.6298 |
| Maximum | 76.7728 | 54.5817 | 34.3023 | 0.0872 | 7.8635        | 2.3914       | 10.2549    | 4.2827         | 2.2001        | 6.4828      | 0.0000   | 8,756.3181 | 8,756.3181 | 1.9479 | 0.0000 | 8,780.6298 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 56.83         | 0.00         | 50.23      | 57.04          | 0.00          | 46.73       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational  
Unmitigated Operational

|          | ROG      | NOx     | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
|----------|----------|---------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|-------------|-------------|--------|--------|-------------|
| Category | lb/day   |         |          |             |               |              |            |                |               |             | lb/day     |             |             |        |        |             |
| Area     | 462.7998 | 9.1307  | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791  | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |
| Energy   | 0.0982   | 0.8389  | 0.3570   | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |            | 1,070.9895  | 1,070.9895  | 0.0205 | 0.0196 | 1,077.3539  |
| Mobile   | 3.9384   | 17.1920 | 46.7656  | 0.1492      | 12.8325       | 0.1522       | 12.9848    | 3.4300         | 0.1429        | 3.5729      |            | 15,142.1577 | 15,142.1577 | 0.8396 |        | 15,163.1465 |
| Total    | 466.8363 | 27.1616 | 630.8833 | 1.1689      | 12.8325       | 78.7568      | 91.5893    | 3.4300         | 78.7475       | 82.1775     | 8,220.4323 | 19,704.8263 | 27,925.2586 | 8.4895 | 0.6662 | 28,336.0345 |

Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 10.3200        | 4.7033         | 26.4657        | 0.0295        |                | 0.4923        | 0.4923         |                | 0.4923        | 0.4923        | 0.0000        | 5,685.5614         | 5,685.5614         | 0.1515        | 0.1034        | 5,720.1694         |
| Energy       | 0.0982         | 0.8389         | 0.3570         | 5.3500e-003   |                | 0.0678        | 0.0678         |                | 0.0678        | 0.0678        |               | 1,070.9895         | 1,070.9895         | 0.0205        | 0.0196        | 1,077.3539         |
| Mobile       | 3.9384         | 17.1920        | 46.7656        | 0.1492        | 12.8325        | 0.1522        | 12.9848        | 3.4300         | 0.1429        | 3.5729        |               | 15,142.1577        | 15,142.1577        | 0.8396        |               | 15,163.1465        |
| <b>Total</b> | <b>14.3566</b> | <b>22.7342</b> | <b>73.5883</b> | <b>0.1841</b> | <b>12.8325</b> | <b>0.7124</b> | <b>13.5449</b> | <b>3.4300</b>  | <b>0.7030</b> | <b>4.1330</b> | <b>0.0000</b> | <b>21,898.7086</b> | <b>21,898.7086</b> | <b>1.0116</b> | <b>0.1231</b> | <b>21,960.6697</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>96.92</b> | <b>16.30</b> | <b>88.34</b> | <b>84.25</b> | <b>0.00</b>   | <b>99.10</b> | <b>85.21</b> | <b>0.00</b>    | <b>99.11</b>  | <b>94.97</b> | <b>100.00</b> | <b>-11.13</b> | <b>21.58</b> | <b>88.08</b> | <b>81.53</b> | <b>22.50</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/28/2019  | 5             | 20       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/29/2019  | 2/11/2019  | 5             | 10       |                   |
| 3            | Grading               | Grading               | 2/12/2019  | 4/1/2019   | 5             | 35       |                   |
| 4            | Building Construction | Building Construction | 4/30/2019  | 12/31/2019 | 5             | 176      |                   |
| 5            | Paving                | Paving                | 4/2/2019   | 4/29/2019  | 5             | 20       |                   |
| 6            | Architectural Coating | Architectural Coating | 6/29/2019  | 12/31/2019 | 5             | 132      |                   |

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

**Acres of Grading (Grading Phase): 87.5**

**Acres of Paving: 7.33**

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

| Phase Name       | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition       | 6                       | 15.00              | 0.00               | 18.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading          | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                       |   |        |       |      |       |      |       |        |         |      |
|-----------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Paving                | 6 | 15.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 350.00 | 85.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 70.00  | 0.00  | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.1934        | 0.0000       | 0.1934     | 0.0293         | 0.0000        | 0.0293      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.1934        | 1.7949       | 1.9883     | 0.0293         | 1.6697        | 1.6990      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Unmitigated Construction Off-Site

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

|              |               |               |               |                    |               |                    |               |               |                    |               |  |                 |                 |               |  |                 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--|-----------------|-----------------|---------------|--|-----------------|
| Hauling      | 8.0300e-003   | 0.2731        | 0.0625        | 7.0000e-004        | 0.0157        | 1.0400e-003        | 0.0168        | 4.3100e-003   | 1.0000e-003        | 5.3100e-003   |  | 76.5818         | 76.5818         | 7.1400e-003   |  | 76.7604         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        |  | 0.0000          | 0.0000          | 0.0000        |  | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1232        | 8.8000e-004        | 0.1241        | 0.0327        | 8.1000e-004        | 0.0335        |  | 122.5371        | 122.5371        | 3.9500e-003   |  | 122.6359        |
| <b>Total</b> | <b>0.0746</b> | <b>0.3193</b> | <b>0.5011</b> | <b>1.9300e-003</b> | <b>0.1390</b> | <b>1.9200e-003</b> | <b>0.1409</b> | <b>0.0370</b> | <b>1.8100e-003</b> | <b>0.0388</b> |  | <b>199.1189</b> | <b>199.1189</b> | <b>0.0111</b> |  | <b>199.3963</b> |

Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0827        | 0.0000        | 0.0827        | 0.0125         | 0.0000        | 0.0125        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.5134        | 35.7830        | 22.0600        | 0.0388        |               | 1.7949        | 1.7949        |                | 1.6697        | 1.6697        | 0.0000        | 3,816.8994        | 3,816.8994        | 1.0618        |     | 3,843.4451        |
| <b>Total</b>  | <b>3.5134</b> | <b>35.7830</b> | <b>22.0600</b> | <b>0.0388</b> | <b>0.0827</b> | <b>1.7949</b> | <b>1.8776</b> | <b>0.0125</b>  | <b>1.6697</b> | <b>1.6822</b> | <b>0.0000</b> | <b>3,816.8994</b> | <b>3,816.8994</b> | <b>1.0618</b> |     | <b>3,843.4451</b> |

Mitigated Construction Off-Site

|          | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 8.0300e-003 | 0.2731 | 0.0625 | 7.0000e-004 | 0.0150        | 1.0400e-003  | 0.0161     | 4.1300e-003    | 1.0000e-003   | 5.1300e-003 |          | 76.5818  | 76.5818   | 7.1400e-003 |     | 76.7604  |
| Vendor   | 0.0000      | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666      | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |        |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|
| Total | 0.0746 | 0.3193 | 0.5011 | 1.9300e-003 | 0.1318 | 1.9200e-003 | 0.1337 | 0.0352 | 1.8100e-003 | 0.0371 |  | 199.1189 | 199.1189 | 0.0111 |  | 199.3963 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 18.0663       | 0.0000       | 18.0663    | 9.9307         | 0.0000        | 9.9307      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.3350 | 45.5727 | 22.0630 | 0.0380 |               | 2.3904       | 2.3904     |                | 2.1991        | 2.1991      |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |
| Total         | 4.3350 | 45.5727 | 22.0630 | 0.0380 | 18.0663       | 2.3904       | 20.4566    | 9.9307         | 2.1991        | 12.1298     |          | 3,766.4529 | 3,766.4529 | 1.1917 |     | 3,796.2445 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |
| Total    | 0.0799 | 0.0554 | 0.5263 | 1.4800e-003 | 0.1479        | 1.0500e-003  | 0.1489     | 0.0392         | 9.7000e-004   | 0.0402      |          | 147.0445 | 147.0445  | 4.7400e-003 |     | 147.1631 |

Mitigated Construction On-Site



|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.7233        | 0.0000        | 7.7233         | 4.2454         | 0.0000        | 4.2454        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.3350        | 45.5727        | 22.0630        | 0.0380        |               | 2.3904        | 2.3904         |                | 2.1991        | 2.1991        | 0.0000        | 3,766.4529        | 3,766.4529        | 1.1917        |     | 3,796.2445        |
| <b>Total</b>  | <b>4.3350</b> | <b>45.5727</b> | <b>22.0630</b> | <b>0.0380</b> | <b>7.7233</b> | <b>2.3904</b> | <b>10.1137</b> | <b>4.2454</b>  | <b>2.1991</b> | <b>6.4445</b> | <b>0.0000</b> | <b>3,766.4529</b> | <b>3,766.4529</b> | <b>1.1917</b> |     | <b>3,796.2445</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0799        | 0.0554        | 0.5263        | 1.4800e-003        | 0.1402        | 1.0500e-003        | 0.1412        | 0.0373         | 9.7000e-004        | 0.0383        |          | 147.0445        | 147.0445        | 4.7400e-003        |     | 147.1631        |
| <b>Total</b> | <b>0.0799</b> | <b>0.0554</b> | <b>0.5263</b> | <b>1.4800e-003</b> | <b>0.1402</b> | <b>1.0500e-003</b> | <b>0.1412</b> | <b>0.0373</b>  | <b>9.7000e-004</b> | <b>0.0383</b> |          | <b>147.0445</b> | <b>147.0445</b> | <b>4.7400e-003</b> |     | <b>147.1631</b> |

3.4 Grading - 2019

Unmitigated Construction On-Site

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

|               |        |         |         |        |        |        |         |        |        |        |  |            |            |        |  |            |
|---------------|--------|---------|---------|--------|--------|--------|---------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Fugitive Dust |        |         |         |        | 8.6733 | 0.0000 | 8.6733  | 3.5965 | 0.0000 | 3.5965 |  |            | 0.0000     |        |  | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |        | 2.3827 | 2.3827  |        | 2.1920 | 2.1920 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 8.6733 | 2.3827 | 11.0560 | 3.5965 | 2.1920 | 5.7885 |  | 6,140.0195 | 6,140.0195 | 1.9426 |  | 6,188.5854 |

Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1643        | 1.1700e-003  | 0.1655     | 0.0436         | 1.0800e-003   | 0.0447      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 3.7079        | 0.0000       | 3.7079     | 1.5375         | 0.0000        | 1.5375      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 4.7389 | 54.5202 | 33.3768 | 0.0620 |               | 2.3827       | 2.3827     |                | 2.1920        | 2.1920      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |
| Total         | 4.7389 | 54.5202 | 33.3768 | 0.0620 | 3.7079        | 2.3827       | 6.0905     | 1.5375         | 2.1920        | 3.7295      | 0.0000   | 6,140.0195 | 6,140.0195 | 1.9426 |     | 6,188.5854 |

### Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |
| Total    | 0.0888 | 0.0616 | 0.5848 | 1.6400e-003 | 0.1557        | 1.1700e-003  | 0.1569     | 0.0415         | 1.0800e-003   | 0.0426      |          | 163.3828 | 163.3828  | 5.2700e-003 |     | 163.5146 |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      |          | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 |     | 0.0000     |
| Vendor   | 0.4081 | 10.5475 | 3.0167  | 0.0229 | 0.5754        | 0.0746       | 0.6500     | 0.1657         | 0.0714        | 0.2370      |          | 2,452.2522 | 2,452.2522 | 0.2067 |     | 2,457.4185 |
| Worker   | 1.5543 | 1.0771  | 10.2338 | 0.0287 | 2.8752        | 0.0205       | 2.8957     | 0.7626         | 0.0189        | 0.7815      |          | 2,859.1981 | 2,859.1981 | 0.0923 |     | 2,861.5046 |
| Total    | 1.9623 | 11.6246 | 13.2504 | 0.0516 | 3.4506        | 0.0951       | 3.5457     | 0.9283         | 0.0903        | 1.0185      |          | 5,311.4503 | 5,311.4503 | 0.2989 |     | 5,318.9231 |

Mitigated Construction On-Site

|          | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |
| Total    | 2.3612 | 21.0788 | 17.1638 | 0.0269 |               | 1.2899       | 1.2899     |                | 1.2127        | 1.2127      | 0.0000   | 2,591.5802 | 2,591.5802 | 0.6313 |     | 2,607.3635 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e   |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|--------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |          |           |        |     |        |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000 |

|              |               |                |                |               |               |               |               |               |               |               |  |                        |                   |               |  |                        |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|------------------------|-------------------|---------------|--|------------------------|
| Vendor       | 0.4081        | 10.5475        | 3.0167         | 0.0229        | 0.5508        | 0.0746        | 0.6254        | 0.1596        | 0.0714        | 0.2310        |  | 2,452.252<br>2         | 2,452.2522        | 0.2067        |  | 2,457.418<br>5         |
| Worker       | 1.5543        | 1.0771         | 10.2338        | 0.0287        | 2.7252        | 0.0205        | 2.7457        | 0.7258        | 0.0189        | 0.7447        |  | 2,859.198<br>1         | 2,859.1981        | 0.0923        |  | 2,861.504<br>6         |
| <b>Total</b> | <b>1.9623</b> | <b>11.6246</b> | <b>13.2504</b> | <b>0.0516</b> | <b>3.2761</b> | <b>0.0951</b> | <b>3.3712</b> | <b>0.8854</b> | <b>0.0903</b> | <b>0.9757</b> |  | <b>5,311.450<br/>3</b> | <b>5,311.4503</b> | <b>0.2989</b> |  | <b>5,318.923<br/>1</b> |

### 3.6 Paving - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive<br>PM10 | Exhaust<br>PM10 | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5 | PM2.5<br>Total | Bio- CO2 | NBio-<br>CO2           | Total CO2         | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|------------------------|-------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |                  |                 |               |                   |                  |                | lb/day   |                        |                   |               |     |                        |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |                  | 0.8246          | 0.8246        |                   | 0.7586           | 0.7586         |          | 2,257.002<br>5         | 2,257.0025        | 0.7141        |     | 2,274.854<br>8         |
| Paving       | 0.9602        |                |                |               |                  | 0.0000          | 0.0000        |                   | 0.0000           | 0.0000         |          |                        | 0.0000            |               |     | 0.0000                 |
| <b>Total</b> | <b>2.4147</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |                  | <b>0.8246</b>   | <b>0.8246</b> |                   | <b>0.7586</b>    | <b>0.7586</b>  |          | <b>2,257.002<br/>5</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.854<br/>8</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                     | Fugitive<br>PM10 | Exhaust<br>PM10         | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5        | PM2.5<br>Total | Bio- CO2 | NBio-<br>CO2    | Total CO2       | CH4                     | N2O | CO2e            |
|--------------|---------------|---------------|---------------|-------------------------|------------------|-------------------------|---------------|-------------------|-------------------------|----------------|----------|-----------------|-----------------|-------------------------|-----|-----------------|
| Category     | lb/day        |               |               |                         |                  |                         |               |                   |                         |                | lb/day   |                 |                 |                         |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000                  | 0.0000           | 0.0000                  | 0.0000        | 0.0000            | 0.0000                  | 0.0000         |          | 0.0000          | 0.0000          | 0.0000                  |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000                  | 0.0000           | 0.0000                  | 0.0000        | 0.0000            | 0.0000                  | 0.0000         |          | 0.0000          | 0.0000          | 0.0000                  |     | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-<br>003         | 0.1232           | 8.8000e-<br>004         | 0.1241        | 0.0327            | 8.1000e-<br>004         | 0.0335         |          | 122.5371        | 122.5371        | 3.9500e-<br>003         |     | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-<br/>003</b> | <b>0.1232</b>    | <b>8.8000e-<br/>004</b> | <b>0.1241</b> | <b>0.0327</b>     | <b>8.1000e-<br/>004</b> | <b>0.0335</b>  |          | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-<br/>003</b> |     | <b>122.6359</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2          | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4544        | 15.2441        | 14.6648        | 0.0228        |               | 0.8246        | 0.8246        |                | 0.7586        | 0.7586        | 0.0000        | 2,257.0025        | 2,257.0025        | 0.7141        |     | 2,274.8548        |
| Paving       | 0.9602        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.4147</b> | <b>15.2441</b> | <b>14.6648</b> | <b>0.0228</b> |               | <b>0.8246</b> | <b>0.8246</b> |                | <b>0.7586</b> | <b>0.7586</b> | <b>0.0000</b> | <b>2,257.0025</b> | <b>2,257.0025</b> | <b>0.7141</b> |     | <b>2,274.8548</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0666        | 0.0462        | 0.4386        | 1.2300e-003        | 0.1168        | 8.8000e-004        | 0.1177        | 0.0311         | 8.1000e-004        | 0.0319        |          | 122.5371        | 122.5371        | 3.9500e-003        |     | 122.6359        |
| <b>Total</b> | <b>0.0666</b> | <b>0.0462</b> | <b>0.4386</b> | <b>1.2300e-003</b> | <b>0.1168</b> | <b>8.8000e-004</b> | <b>0.1177</b> | <b>0.0311</b>  | <b>8.1000e-004</b> | <b>0.0319</b> |          | <b>122.5371</b> | <b>122.5371</b> | <b>3.9500e-003</b> |     | <b>122.6359</b> |

### 3.7 Architectural Coating - 2019

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 71.8720        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>72.1384</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.3109        | 0.2154        | 2.0468        | 5.7400e-003        | 0.5750        | 4.1000e-003        | 0.5791        | 0.1525         | 3.7800e-003        | 0.1563        |          | 571.8396        | 571.8396        | 0.0185        |     | 572.3009        |
| <b>Total</b> | <b>0.3109</b> | <b>0.2154</b> | <b>2.0468</b> | <b>5.7400e-003</b> | <b>0.5750</b> | <b>4.1000e-003</b> | <b>0.5791</b> | <b>0.1525</b>  | <b>3.7800e-003</b> | <b>0.1563</b> |          | <b>571.8396</b> | <b>571.8396</b> | <b>0.0185</b> |     | <b>572.3009</b> |

**Mitigated Construction On-Site**

|                 | ROG     | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e   |
|-----------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| Category        | lb/day  |     |    |     |               |              |            |                |               |             | lb/day   |           |           |     |     |        |
| Archit. Coating | 71.8720 |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |     |     | 0.0000 |

|          |         |        |        |             |  |        |        |  |        |        |        |          |          |        |  |          |
|----------|---------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--|----------|
| Off-Road | 0.2664  | 1.8354 | 1.8413 | 2.9700e-003 |  | 0.1288 | 0.1288 |  | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 |  | 282.0423 |
| Total    | 72.1384 | 1.8354 | 1.8413 | 2.9700e-003 |  | 0.1288 | 0.1288 |  | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 |  | 282.0423 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4    | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|--------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |        |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000 |     | 0.0000   |
| Worker   | 0.3109 | 0.2154 | 2.0468 | 5.7400e-003 | 0.5451        | 4.1000e-003  | 0.5492     | 0.1452         | 3.7800e-003   | 0.1489      |          | 571.8396 | 571.8396  | 0.0185 |     | 572.3009 |
| Total    | 0.3109 | 0.2154 | 2.0468 | 5.7400e-003 | 0.5451        | 4.1000e-003  | 0.5492     | 0.1452         | 3.7800e-003   | 0.1489      |          | 571.8396 | 571.8396  | 0.0185 |     | 572.3009 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|           | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O | CO2e        |
|-----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category  | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated | 3.9384 | 17.1920 | 46.7656 | 0.1492 | 12.8325       | 0.1522       | 12.9848    | 3.4300         | 0.1429        | 3.5729      |          | 15,142.1577 | 15,142.1577 | 0.8396 |     | 15,163.1465 |



|             |        |         |         |        |         |        |         |        |        |        |  |             |             |        |  |             |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Unmitigated | 3.9384 | 17.1920 | 46.7656 | 0.1492 | 12.8325 | 0.1522 | 12.9848 | 3.4300 | 0.1429 | 3.5729 |  | 15,142.1577 | 15,142.1577 | 0.8396 |  | 15,163.1465 |
|-------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 1,950.64                | 2,119.36 | 1796.72  | 5,575,706   | 5,575,706  |
| Parking Lot         | 0.00                    | 0.00     | 0.00     |             |            |
| Total               | 1,950.64                | 2,119.36 | 1,796.72 | 5,575,706   | 5,575,706  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| Category               | lb/day |        |        |             |  |        |        |  |        |        | lb/day |            |            |        |        |            |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|
| NaturalGas Mitigated   | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| NaturalGas Unmitigated | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |  | 0.0678 | 0.0678 |  | 0.0678 | 0.0678 |        | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9103.41        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 9.10341        | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.0982 | 0.8389 | 0.3570 | 5.3500e-003 |               | 0.0678       | 0.0678     |                | 0.0678        | 0.0678      |          | 1,070.9895 | 1,070.9895 | 0.0205 | 0.0196 | 1,077.3539 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Mitigated   | 10.3200  | 4.7033 | 26.4657  | 0.0295 |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000     | 5,685.5614 | 5,685.5614  | 0.1515 | 0.1034 | 5,720.1694  |
| Unmitigated | 462.7998 | 9.1307 | 583.7607 | 1.0144 |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6295 | 0.6466 | 12,095.5341 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG      | NOx    | CO       | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2   | CH4    | N2O    | CO2e        |
|-----------------------|----------|--------|----------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-------------|--------|--------|-------------|
| SubCategory           | lb/day   |        |          |             |               |              |            |                |               |             | lb/day     |            |             |        |        |             |
| Architectural Coating | 2.5992   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Consumer Products     | 6.4497   |        |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |            |            | 0.0000      |        |        | 0.0000      |
| Hearth                | 452.9969 | 8.8465 | 559.1755 | 1.0131      |               | 78.4017      | 78.4017    |                | 78.4017       | 78.4017     | 8,220.4323 | 3,447.5294 | 11,667.9617 | 7.5861 | 0.6466 | 12,050.3006 |
| Landscaping           | 0.7540   | 0.2842 | 24.5852  | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |            | 44.1496    | 44.1496     | 0.0434 |        | 45.2335     |
| Total                 | 462.7998 | 9.1307 | 583.7607 | 1.0144      |               | 78.5368      | 78.5368    |                | 78.5368       | 78.5368     | 8,220.4323 | 3,491.6791 | 11,712.1114 | 7.6294 | 0.6466 | 12,095.5341 |

Mitigated

|                       | ROG     | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|-----------------------|---------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| SubCategory           | lb/day  |        |         |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Architectural Coating | 2.5992  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Consumer Products     | 6.4497  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |            | 0.0000     |        |        | 0.0000     |
| Hearth                | 0.5171  | 4.4191 | 1.8805  | 0.0282      |               | 0.3573       | 0.3573     |                | 0.3573        | 0.3573      | 0.0000   | 5,641.4118 | 5,641.4118 | 0.1081 | 0.1034 | 5,674.9359 |
| Landscaping           | 0.7540  | 0.2842 | 24.5852 | 1.3000e-003 |               | 0.1350       | 0.1350     |                | 0.1350        | 0.1350      |          | 44.1496    | 44.1496    | 0.0434 |        | 45.2335    |
| Total                 | 10.3200 | 4.7033 | 26.4657 | 0.0295      |               | 0.4923       | 0.4923     |                | 0.4923        | 0.4923      | 0.0000   | 5,685.5614 | 5,685.5614 | 0.1515 | 0.1034 | 5,720.1693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

## Encinitas HE - All Sites - San Diego County, Annual

## Encinitas HE - All Sites

### San Diego County, Annual

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses           | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|----------|---------------|-------------|--------------------|------------|
| Parking Lot         | 6,853.00 | Space         | 61.68       | 2,741,200.00       | 0          |
| Apartments Low Rise | 2,494.00 | Dwelling Unit | 155.88      | 2,494,000.00       | 7133       |

### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       |                                     |       | <b>Operational Year</b>             | 2020  |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase - operations only

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Woodstoves -

| Table Name             | Column Name                     | Default Value | New Value |
|------------------------|---------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12        |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15        |

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    | 0.4662  | 4.6756 | 2.9361 | 5.2300e-003 | 0.0157        | 0.2344       | 0.2501     | 4.1700e-003    | 0.2180        | 0.2222      | 0.0000   | 466.5254  | 466.5254  | 0.1262 | 0.0000 | 469.6799 |
| 2020    | 0.0657  | 0.6482 | 0.4320 | 7.8000e-004 | 2.3500e-003   | 0.0324       | 0.0347     | 6.2000e-004    | 0.0301        | 0.0307      | 0.0000   | 68.4175   | 68.4175   | 0.0188 | 0.0000 | 68.8870  |
| Maximum | 0.4662  | 4.6756 | 2.9361 | 5.2300e-003 | 0.0157        | 0.2344       | 0.2501     | 4.1700e-003    | 0.2180        | 0.2222      | 0.0000   | 466.5254  | 466.5254  | 0.1262 | 0.0000 | 469.6799 |

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 | 0.4662  | 4.6756 | 2.9361 | 5.2300e-003 | 0.0149        | 0.2344       | 0.2492     | 3.9700e-003    | 0.2180        | 0.2220      | 0.0000   | 466.5249  | 466.5249  | 0.1262 | 0.0000 | 469.6793 |

|         |        |        |        |             |             |        |        |             |        |        |        |          |          |        |        |          |
|---------|--------|--------|--------|-------------|-------------|--------|--------|-------------|--------|--------|--------|----------|----------|--------|--------|----------|
| 2020    | 0.0657 | 0.6482 | 0.4320 | 7.8000e-004 | 2.2200e-003 | 0.0324 | 0.0346 | 5.9000e-004 | 0.0301 | 0.0307 | 0.0000 | 68.4175  | 68.4175  | 0.0188 | 0.0000 | 68.8869  |
| Maximum | 0.4662 | 4.6756 | 2.9361 | 5.2300e-003 | 0.0149      | 0.2344 | 0.2492 | 3.9700e-003 | 0.2180 | 0.2220 | 0.0000 | 466.5249 | 466.5249 | 0.1262 | 0.0000 | 469.6793 |

|                   |      |      |      |      |               |              |            |                |               |             |          |          |           |      |      |      |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 5.26          | 0.00         | 0.33       | 4.80           | 0.00          | 0.09        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019  | 1.2667                                       | 1.2667                                     |
| 2       | 4-1-2019   | 6-30-2019  | 1.2804                                       | 1.2804                                     |
| 3       | 7-1-2019   | 9-30-2019  | 1.2945                                       | 1.2945                                     |
| 4       | 10-1-2019  | 12-31-2019 | 1.2949                                       | 1.2949                                     |
| 5       | 1-1-2020   | 3-31-2020  | 0.7193                                       | 0.7193                                     |
|         |            | Highest    | 1.2949                                       | 1.2949                                     |

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     | 170.9749 | 3.2715  | 211.8119 | 0.3510      |               | 27.1865      | 27.1865    |                | 27.1865       | 27.1865     | 2,576.1965 | 1,110.7909  | 3,686.9874  | 2.4072  | 0.2026 | 3,807.5540  |
| Energy   | 0.1510   | 1.2900  | 0.5490   | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000     | 5,266.6428  | 5,266.6428  | 0.1805  | 0.0588 | 5,288.6795  |
| Mobile   | 5.4276   | 24.3536 | 65.3292  | 0.2128      | 17.7060       | 0.2140       | 17.9200    | 4.7419         | 0.2009        | 4.9428      | 0.0000     | 19,588.3081 | 19,588.3081 | 1.0654  | 0.0000 | 19,614.9438 |
| Waste    |          |         |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 232.8794   | 0.0000      | 232.8794    | 13.7628 | 0.0000 | 576.9487    |
| Water    |          |         |          |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 51.5519    | 1,063.4247  | 1,114.9766  | 5.3377  | 0.1339 | 1,288.3146  |
| Total    | 176.5535 | 28.9151 | 277.6900 | 0.5719      | 17.7060       | 27.5048      | 45.2108    | 4.7419         | 27.4916       | 32.2335     | 2,860.6278 | 27,029.1665 | 29,889.7943 | 22.7536 | 0.3953 | 30,576.4406 |



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     | 14.6646 | 1.7421  | 19.2928 | 0.0107      |               | 0.2258       | 0.2258     |                | 0.2258        | 0.2258      | 0.0000   | 1,798.3304  | 1,798.3304  | 0.0637  | 0.0324 | 1,809.5821  |
| Energy   | 0.1510  | 1.2900  | 0.5490  | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000   | 5,266.6428  | 5,266.6428  | 0.1805  | 0.0588 | 5,288.6795  |
| Mobile   | 5.4276  | 24.3536 | 65.3292 | 0.2128      | 17.7060       | 0.2140       | 17.9200    | 4.7419         | 0.2009        | 4.9428      | 0.0000   | 19,588.3081 | 19,588.3081 | 1.0654  | 0.0000 | 19,614.9438 |
| Waste    |         |         |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 116.4397 | 0.0000      | 116.4397    | 6.8814  | 0.0000 | 288.4744    |
| Water    |         |         |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 41.2415  | 902.4410    | 943.6825    | 4.2722  | 0.1075 | 1,082.5332  |
| Total    | 20.2431 | 27.3857 | 85.1710 | 0.2317      | 17.7060       | 0.5442       | 18.2501    | 4.7419         | 0.5310        | 5.2729      | 157.6812 | 27,555.7223 | 27,713.4035 | 12.4632 | 0.1988 | 28,084.2129 |

|                   | ROG   | NOx  | CO    | SO2   | 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 | 88.53 | 5.29 | 69.33 | 59.49 | 0.00          | 98.02        | 59.63      | 0.00           | 98.07         | 83.64       | 94.49    | -1.95    | 7.28      | 45.23 | 49.73 | 8.15 |

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 | 1/1/2019   | 2/24/2020 | 5             | 300      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 61.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

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 | Excavators               | 3      | 8.00        | 158         | 0.38        |
| Demolition | Rubber Tired Dozers      | 2      | 8.00        | 247         | 0.40        |

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 | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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    |           |           |        |        |          |
| Fugitive Dust |         |        |        |             | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Off-Road      | 0.4585  | 4.6697 | 2.8788 | 5.0600e-003 |               | 0.2342       | 0.2342     |                | 0.2179        | 0.2179      | 0.0000   | 451.8736  | 451.8736  | 0.1257 | 0.0000 | 455.0163 |
| Total         | 0.4585  | 4.6697 | 2.8788 | 5.0600e-003 | 0.0000        | 0.2342       | 0.2342     | 0.0000         | 0.2179        | 0.2179      | 0.0000   | 451.8736  | 451.8736  | 0.1257 | 0.0000 | 455.0163 |

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   | 7.7200e-003 | 5.9200e-003 | 0.0573 | 1.6000e-004 | 0.0157        | 1.1000e-004  | 0.0158     | 4.1700e-003    | 1.1000e-004   | 4.2800e-003 | 0.0000   | 14.6518   | 14.6518   | 4.7000e-004 | 0.0000 | 14.6636 |
| Total    | 7.7200e-003 | 5.9200e-003 | 0.0573 | 1.6000e-004 | 0.0157        | 1.1000e-004  | 0.0158     | 4.1700e-003    | 1.1000e-004   | 4.2800e-003 | 0.0000   | 14.6518   | 14.6518   | 4.7000e-004 | 0.0000 | 14.6636 |

Mitigated Construction On-Site

|               | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category      | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Fugitive Dust |         |        |        |             | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| Off-Road      | 0.4585  | 4.6697 | 2.8788 | 5.0600e-003 |               | 0.2342       | 0.2342     |                | 0.2179        | 0.2179      | 0.0000   | 451.8731  | 451.8731  | 0.1257 | 0.0000 | 455.0157 |
| Total         | 0.4585  | 4.6697 | 2.8788 | 5.0600e-003 | 0.0000        | 0.2342       | 0.2342     | 0.0000         | 0.2179        | 0.2179      | 0.0000   | 451.8731  | 451.8731  | 0.1257 | 0.0000 | 455.0157 |

Mitigated Construction Off-Site



|              |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| 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       | 1.0800e-003        | 8.0000e-004        | 7.8300e-003        | 2.0000e-005        | 2.3500e-003        | 2.0000e-005        | 2.3600e-003        | 6.2000e-004        | 2.0000e-005        | 6.4000e-004        | 0.0000        | 2.1203        | 2.1203        | 6.0000e-005        | 0.0000        | 2.1219        |
| <b>Total</b> | <b>1.0800e-003</b> | <b>8.0000e-004</b> | <b>7.8300e-003</b> | <b>2.0000e-005</b> | <b>2.3500e-003</b> | <b>2.0000e-005</b> | <b>2.3600e-003</b> | <b>6.2000e-004</b> | <b>2.0000e-005</b> | <b>6.4000e-004</b> | <b>0.0000</b> | <b>2.1203</b> | <b>2.1203</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.1219</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2       | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0646        | 0.6474        | 0.4242        | 7.6000e-004        |               | 0.0323        | 0.0323        |                | 0.0301        | 0.0301        | 0.0000        | 66.2972        | 66.2972        | 0.0187        | 0.0000        | 66.7651        |
| <b>Total</b>  | <b>0.0646</b> | <b>0.6474</b> | <b>0.4242</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>0.0323</b> | <b>0.0323</b> | <b>0.0000</b>  | <b>0.0301</b> | <b>0.0301</b> | <b>0.0000</b> | <b>66.2972</b> | <b>66.2972</b> | <b>0.0187</b> | <b>0.0000</b> | <b>66.7651</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       | 1.0800e-003        | 8.0000e-004        | 7.8300e-003        | 2.0000e-005        | 2.2200e-003        | 2.0000e-005        | 2.2400e-003        | 5.9000e-004        | 2.0000e-005        | 6.1000e-004        | 0.0000        | 2.1203        | 2.1203        | 6.0000e-005        | 0.0000        | 2.1219        |
| <b>Total</b> | <b>1.0800e-003</b> | <b>8.0000e-004</b> | <b>7.8300e-003</b> | <b>2.0000e-005</b> | <b>2.2200e-003</b> | <b>2.0000e-005</b> | <b>2.2400e-003</b> | <b>5.9000e-004</b> | <b>2.0000e-005</b> | <b>6.1000e-004</b> | <b>0.0000</b> | <b>2.1203</b> | <b>2.1203</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.1219</b> |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |         |         |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 5.4276  | 24.3536 | 65.3292 | 0.2128 | 17.7060       | 0.2140       | 17.9200    | 4.7419         | 0.2009        | 4.9428      | 0.0000   | 19,588.3081 | 19,588.3081 | 1.0654 | 0.0000 | 19,614.9438 |
| Unmitigated | 5.4276  | 24.3536 | 65.3292 | 0.2128 | 17.7060       | 0.2140       | 17.9200    | 4.7419         | 0.2009        | 4.9428      | 0.0000   | 19,588.3081 | 19,588.3081 | 1.0654 | 0.0000 | 19,614.9438 |

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |           |           | Unmitigated | Mitigated  |
|---------------------|-------------------------|-----------|-----------|-------------|------------|
|                     | Weekday                 | Saturday  | Sunday    | Annual VMT  | Annual VMT |
| Apartments Low Rise | 16,435.46               | 17,857.04 | 15138.58  | 46,979,089  | 46,979,089 |
| Parking Lot         | 0.00                    | 0.00      | 0.00      |             |            |
| Total               | 16,435.46               | 17,857.04 | 15,138.58 | 46,979,089  | 46,979,089 |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|-----|------|------|-----|------|------|-----|-----|------|------|-----|------|----|
|----------|-----|------|------|-----|------|------|-----|-----|------|------|-----|------|----|

|                     |          |          |          |          |          |          |          |          |          |          |          |          |          |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

Historical Energy Use: N

|                         | ROG     | NOx    | CO     | SO2         | Fugitive 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   | 3,772.6497 | 3,772.6497 | 0.1519 | 0.0314 | 3,785.8084 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 3,772.6497 | 3,772.6497 | 0.1519 | 0.0314 | 3,785.8084 |
| NaturalGas Mitigated    | 0.1510  | 1.2900 | 0.5490 | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000   | 1,493.9930 | 1,493.9930 | 0.0286 | 0.0274 | 1,502.8711 |
| NaturalGas Unmitigated  | 0.1510  | 1.2900 | 0.5490 | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000   | 1,493.9930 | 1,493.9930 | 0.0286 | 0.0274 | 1,502.8711 |

### Unmitigated

|       |  |        |        |        |             |  |        |        |  |        |        |        |            |            |        |        |            |
|-------|--|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|
| Total |  | 0.1510 | 1.2900 | 0.5490 | 8.2300e-003 |  | 0.1043 | 0.1043 |  | 0.1043 | 0.1043 | 0.0000 | 1,493.9930 | 1,493.9930 | 0.0286 | 0.0274 | 1,502.8711 |
|-------|--|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|------------|------------|--------|--------|------------|

Mitigated

|                     | NaturalGas Use | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Apartments Low Rise | 2.79964e+007   | 0.1510  | 1.2900 | 0.5490 | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000   | 1,493.9930 | 1,493.9930 | 0.0286 | 0.0274 | 1,502.8711 |
| Parking Lot         | 0              | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.1510  | 1.2900 | 0.5490 | 8.2300e-003 |               | 0.1043       | 0.1043     |                | 0.1043        | 0.1043      | 0.0000   | 1,493.9930 | 1,493.9930 | 0.0286 | 0.0274 | 1,502.8711 |

5.3 Energy by Land Use - Electricity

Unmitigated

|                     | Electricity Use | Total CO2  | CH4    | N2O         | CO2e       |
|---------------------|-----------------|------------|--------|-------------|------------|
| Land Use            | kWh/yr          | MT/yr      |        |             |            |
| Apartments Low Rise | 1.05845e+007    | 3,459.1029 | 0.1392 | 0.0288      | 3,471.1679 |
| Parking Lot         | 959420          | 313.5469   | 0.0126 | 2.6100e-003 | 314.6405   |
| Total               |                 | 3,772.6497 | 0.1519 | 0.0314      | 3,785.8084 |

Mitigated



|                     |                 |            |        |             |            |
|---------------------|-----------------|------------|--------|-------------|------------|
|                     | Electricity Use | Total CO2  | CH4    | N2O         | CO2e       |
| Land Use            | kWh/yr          | MT/yr      |        |             |            |
| Apartments Low Rise | 1.05845e+007    | 3,459.1029 | 0.1392 | 0.0288      | 3,471.1679 |
| Parking Lot         | 959420          | 313.5469   | 0.0126 | 2.6100e-003 | 314.6405   |
| Total               |                 | 3,772.6497 | 0.1519 | 0.0314      | 3,785.8084 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             |          |        |          |        |               |              |            |                |               |             |            |            |            |        |        |            |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
|             | ROG      | NOx    | CO       | SO2    | Fugitive 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   | 14.6646  | 1.7421 | 19.2928  | 0.0107 |               | 0.2258       | 0.2258     |                | 0.2258        | 0.2258      | 0.0000     | 1,798.3304 | 1,798.3304 | 0.0637 | 0.0324 | 1,809.5821 |
| Unmitigated | 170.9749 | 3.2715 | 211.8119 | 0.3510 |               | 27.1865      | 27.1865    |                | 27.1865       | 27.1865     | 2,576.1965 | 1,110.7909 | 3,686.9874 | 2.4072 | 0.2026 | 3,807.5540 |

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 | 3.9967   |        |          |             |  | 0.0000  | 0.0000  |  | 0.0000  | 0.0000  | 0.0000     | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Consumer Products     | 9.9175   |        |          |             |  | 0.0000  | 0.0000  |  | 0.0000  | 0.0000  | 0.0000     | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Hearth                | 156.4890 | 3.0561 | 193.1687 | 0.3500      |  | 27.0841 | 27.0841 |  | 27.0841 | 27.0841 | 2,576.1965 | 1,080.4192 | 3,656.6158 | 2.3774 | 0.2026 | 3,776.4367 |
| Landscaping           | 0.5717   | 0.2155 | 18.6432  | 9.8000e-004 |  | 0.1024  | 0.1024  |  | 0.1024  | 0.1024  | 0.0000     | 30.3717    | 30.3717    | 0.0298 | 0.0000 | 31.1173    |
| Total                 | 170.9749 | 3.2715 | 211.8119 | 0.3510      |  | 27.1865 | 27.1865 |  | 27.1865 | 27.1865 | 2,576.1965 | 1,110.7909 | 3,686.9874 | 2.4072 | 0.2026 | 3,807.5540 |

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 | 3.9967  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Consumer Products     | 9.9175  |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Hearth                | 0.1786  | 1.5266 | 0.6496  | 9.7400e-003 |               | 0.1234       | 0.1234     |                | 0.1234        | 0.1234      | 0.0000   | 1,767.9588 | 1,767.9588 | 0.0339 | 0.0324 | 1,778.4649 |
| Landscaping           | 0.5717  | 0.2155 | 18.6432 | 9.8000e-004 |               | 0.1024       | 0.1024     |                | 0.1024        | 0.1024      | 0.0000   | 30.3717    | 30.3717    | 0.0298 | 0.0000 | 31.1173    |
| Total                 | 14.6646 | 1.7421 | 19.2928 | 0.0107      |               | 0.2258       | 0.2258     |                | 0.2258        | 0.2258      | 0.0000   | 1,798.3304 | 1,798.3304 | 0.0637 | 0.0324 | 1,809.5821 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

Use Water Efficient Irrigation System

|             | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|------------|--------|--------|------------|
| Category    | MT/yr      |        |        |            |
| Mitigated   | 943.6825   | 4.2722 | 0.1075 | 1,082.5332 |
| Unmitigated | 1,114.9766 | 5.3377 | 0.1339 | 1,288.3146 |

7.2 Water by Land Use

Unmitigated

|                     | Indoor/Outdoor Use | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|--------------------|------------|--------|--------|------------|
| Land Use            | Mgal               | MT/yr      |        |        |            |
| Apartments Low Rise | 162.494 / 102.442  | 1,114.9766 | 5.3377 | 0.1339 | 1,288.3146 |
| Parking Lot         | 0 / 0              | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                    | 1,114.9766 | 5.3377 | 0.1339 | 1,288.3146 |

Mitigated

|  | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|-----|------|
|--|--------------------|-----------|-----|-----|------|

| Land Use            | Mgal             | MT/yr           |               |               |                   |
|---------------------|------------------|-----------------|---------------|---------------|-------------------|
| Apartments Low Rise | 129.995 / 96.193 | 943.6825        | 4.2722        | 0.1075        | 1,082.5332        |
| Parking Lot         | 0 / 0            | 0.0000          | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b>        |                  | <b>943.6825</b> | <b>4.2722</b> | <b>0.1075</b> | <b>1,082.5332</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

|             | Total CO2 | CH4     | N2O    | CO2e     |
|-------------|-----------|---------|--------|----------|
|             | MT/yr     |         |        |          |
| Mitigated   | 116.4397  | 6.8814  | 0.0000 | 288.4744 |
| Unmitigated | 232.8794  | 13.7628 | 0.0000 | 576.9487 |

### 8.2 Waste by Land Use

#### Unmitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |

|                     |         |                 |                |               |                 |
|---------------------|---------|-----------------|----------------|---------------|-----------------|
| Apartments Low Rise | 1147.24 | 232.8794        | 13.7628        | 0.0000        | 576.9487        |
| Parking Lot         | 0       | 0.0000          | 0.0000         | 0.0000        | 0.0000          |
| <b>Total</b>        |         | <b>232.8794</b> | <b>13.7628</b> | <b>0.0000</b> | <b>576.9487</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2       | CH4           | N2O           | CO2e            |
|---------------------|----------------|-----------------|---------------|---------------|-----------------|
| Land Use            | tons           | MT/yr           |               |               |                 |
| Apartments Low Rise | 573.62         | 116.4397        | 6.8814        | 0.0000        | 288.4744        |
| Parking Lot         | 0              | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b>        |                | <b>116.4397</b> | <b>6.8814</b> | <b>0.0000</b> | <b>288.4744</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Encinitas HE - All Sites - San Diego County, Summer

## Encinitas HE - All Sites San Diego County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses           | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|----------|---------------|-------------|--------------------|------------|
| Parking Lot         | 6,853.00 | Space         | 61.68       | 2,741,200.00       | 0          |
| Apartments Low Rise | 2,494.00 | Dwelling Unit | 155.88      | 2,494,000.00       | 7133       |

#### 1.2 Other Project Characteristics

|                                    |                          |                                    |       |                                    |       |
|------------------------------------|--------------------------|------------------------------------|-------|------------------------------------|-------|
| <b>Urbanization</b>                | Urban                    | <b>Wind Speed (m/s)</b>            | 2.6   | <b>Precipitation Freq (Days)</b>   | 40    |
| <b>Climate Zone</b>                | 13                       |                                    |       | <b>Operational Year</b>            | 2020  |
| <b>Utility Company</b>             | San Diego Gas & Electric |                                    |       |                                    |       |
| <b>CO2 Intensity<br/>(lb/MWhr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MWhr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MWhr)</b> | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase - operations only

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Woodstoves -

| Table Name             | Column Name                     | Default Value | New Value |
|------------------------|---------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12        |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15        |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 3.5723 | 35.8241 | 22.5242 | 0.0401 | 0.1232        | 1.7958       | 1.9190     | 0.0327         | 1.6705        | 1.7032      | 0.0000   | 3,947.4293 | 3,947.4293 | 1.0660 | 0.0000 | 3,974.0792 |
| 2020    | 3.3672 | 33.2381 | 22.1784 | 0.0401 | 0.1232        | 1.6596       | 1.7828     | 0.0327         | 1.5427        | 1.5753      | 0.0000   | 3,874.1170 | 3,874.1170 | 1.0617 | 0.0000 | 3,900.6600 |
| Maximum | 3.5723 | 35.8241 | 22.5242 | 0.0401 | 0.1232        | 1.7958       | 1.9190     | 0.0327         | 1.6705        | 1.7032      | 0.0000   | 3,947.4293 | 3,947.4293 | 1.0660 | 0.0000 | 3,974.0792 |

Mitigated Construction

|      | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019 | 3.5723 | 35.8241 | 22.5242 | 0.0401 | 0.1168        | 1.7958       | 1.9126     | 0.0311         | 1.6705        | 1.7016      | 0.0000   | 3,947.4293 | 3,947.4293 | 1.0660 | 0.0000 | 3,974.0792 |



|         |        |         |         |        |        |        |        |        |        |        |        |            |            |        |        |            |
|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|------------|
| 2020    | 3.3672 | 33.2381 | 22.1784 | 0.0401 | 0.1168 | 1.6596 | 1.7764 | 0.0311 | 1.5427 | 1.5738 | 0.0000 | 3,874.1170 | 3,874.1170 | 1.0617 | 0.0000 | 3,900.6600 |
| Maximum | 3.5723 | 35.8241 | 22.5242 | 0.0401 | 0.1168 | 1.7958 | 1.9126 | 0.0311 | 1.6705 | 1.7016 | 0.0000 | 3,947.4293 | 3,947.4293 | 1.0660 | 0.0000 | 3,974.0792 |

|                   |      |      |      |      |               |              |            |                |               |             |          |          |           |      |      |      |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 5.21          | 0.00         | 0.35       | 4.80           | 0.00          | 0.10        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

|          |            |          |            |        |               |              |            |                |               |             |             |              |              |         |        |              |
|----------|------------|----------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|--------|--------------|
|          | ROG        | NOx      | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2     | Total CO2    | CH4     | N2O    | CO2e         |
| Category | lb/day     |          |            |        |               |              |            |                |               |             | lb/day      |              |              |         |        |              |
| Area     | 3,899.3998 | 76.9320  | 4,918.5776 | 8.5467 |               | 661.7253     | 661.7253   |                | 661.7253      | 661.7253    | 69,262.6964 | 29,419.7540  | 98,682.4505  | 64.2833 | 5.4480 | 101,913.0461 |
| Energy   | 0.8272     | 7.0687   | 3.0079     | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |             | 9,023.8105   | 9,023.8105   | 0.1730  | 0.1654 | 9,077.4345   |
| Mobile   | 34.0981    | 140.4958 | 400.3513   | 1.3264 | 108.1226      | 1.2743       | 109.3969   | 28.9001        | 1.1958        | 30.0959     |             | 134,546.2773 | 134,546.2773 | 7.0559  |        | 134,722.6747 |
| Total    | 3,934.3251 | 224.4964 | 5,321.9368 | 9.9183 | 108.1226      | 663.5711     | 771.6936   | 28.9001        | 663.4926      | 692.3926    | 69,262.6964 | 172,989.8418 | 242,252.5383 | 71.5121 | 5.6135 | 245,713.1553 |

Mitigated Operational

|          |         |         |          |        |               |              |            |                |               |             |          |             |             |        |        |             |
|----------|---------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
|          | ROG     | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
| Category | lb/day  |         |          |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| Area     | 86.9519 | 39.6281 | 222.9905 | 0.2486 |               | 4.1481       | 4.1481     |                | 4.1481        | 4.1481      | 0.0000   | 47,904.6952 | 47,904.6952 | 1.2763 | 0.8714 | 48,196.2905 |
| Energy   | 0.8272  | 7.0687  | 3.0079   | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105  | 9,023.8105  | 0.1730 | 0.1654 | 9,077.4345  |

|              |                 |                 |                 |               |                 |               |                 |                |               |                |               |                     |                     |               |               |                     |
|--------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|
| Mobile       | 34.0981         | 140.4958        | 400.3513        | 1.3264        | 108.1226        | 1.2743        | 109.3969        | 28.9001        | 1.1958        | 30.0959        |               | 134,546.2773        | 134,546.2773        | 7.0559        |               | 134,722.6747        |
| <b>Total</b> | <b>121.8772</b> | <b>187.1926</b> | <b>626.3497</b> | <b>1.6201</b> | <b>108.1226</b> | <b>5.9939</b> | <b>114.1165</b> | <b>28.9001</b> | <b>5.9154</b> | <b>34.8155</b> | <b>0.0000</b> | <b>191,474.7830</b> | <b>191,474.7830</b> | <b>8.5052</b> | <b>1.0369</b> | <b>191,996.3997</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 | 96.90 | 16.62 | 88.23 | 83.67 | 0.00          | 99.10        | 85.21      | 0.00           | 99.11         | 94.97       | 100.00   | -10.69   | 20.96     | 88.11 | 81.53 | 21.86 |

### 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 | 1/1/2019   | 2/24/2020 | 5             | 300      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 61.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### 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 | Excavators               | 3      | 8.00        | 158         | 0.38        |
| Demolition | Rubber Tired Dozers      | 2      | 8.00        | 247         | 0.40        |

#### 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 | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232        | 8.8000e-004  | 0.1241     | 0.0327         | 8.1000e-004   | 0.0335      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 |  | 130.5300 | 130.5300 | 4.1700e-003 |  | 130.6342 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      | 0.0000   | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      | 0.0000   | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |
| Total    | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 130.5300 | 130.5300  | 4.1700e-003 |     | 130.6342 |

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      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.3121        | 33.2010        | 21.7532        | 0.0388        |               | 1.6587        | 1.6587        |                | 1.5419        | 1.5419        |          | 3,747.7049        | 3,747.7049        | 1.0580        |     | 3,774.1536        |
| <b>Total</b>  | <b>3.3121</b> | <b>33.2010</b> | <b>21.7532</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.6587</b> | <b>1.6587</b> | <b>0.0000</b>  | <b>1.5419</b> | <b>1.5419</b> |          | <b>3,747.7049</b> | <b>3,747.7049</b> | <b>1.0580</b> |     | <b>3,774.1536</b> |

Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0550        | 0.0371        | 0.4252        | 1.2700e-003        | 0.1232        | 8.6000e-004        | 0.1241        | 0.0327         | 8.0000e-004        | 0.0335        |          | 126.4121        | 126.4121        | 3.7700e-003        |     | 126.5064        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0371</b> | <b>0.4252</b> | <b>1.2700e-003</b> | <b>0.1232</b> | <b>8.6000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.0000e-004</b> | <b>0.0335</b> |          | <b>126.4121</b> | <b>126.4121</b> | <b>3.7700e-003</b> |     | <b>126.5064</b> |

Mitigated Construction On-Site

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

|               |               |                |                |               |               |               |               |               |               |               |               |                   |                   |               |  |                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               |                   | 0.0000            |               |  | 0.0000            |
| Off-Road      | 3.3121        | 33.2010        | 21.7532        | 0.0388        |               | 1.6587        | 1.6587        |               | 1.5419        | 1.5419        | 0.0000        | 3,747.7049        | 3,747.7049        | 1.0580        |  | 3,774.1536        |
| <b>Total</b>  | <b>3.3121</b> | <b>33.2010</b> | <b>21.7532</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.6587</b> | <b>1.6587</b> | <b>0.0000</b> | <b>1.5419</b> | <b>1.5419</b> | <b>0.0000</b> | <b>3,747.7049</b> | <b>3,747.7049</b> | <b>1.0580</b> |  | <b>3,774.1536</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0550        | 0.0371        | 0.4252        | 1.2700e-003        | 0.1168        | 8.6000e-004        | 0.1177        | 0.0311         | 8.0000e-004        | 0.0319        |          | 126.4121        | 126.4121        | 3.7700e-003        |     | 126.5064        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0371</b> | <b>0.4252</b> | <b>1.2700e-003</b> | <b>0.1168</b> | <b>8.6000e-004</b> | <b>0.1177</b> | <b>0.0311</b>  | <b>8.0000e-004</b> | <b>0.0319</b> |          | <b>126.4121</b> | <b>126.4121</b> | <b>3.7700e-003</b> |     | <b>126.5064</b> |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

|             |         |          |          |        |          |        |          |         |        |         |  |              |              |        |  |              |
|-------------|---------|----------|----------|--------|----------|--------|----------|---------|--------|---------|--|--------------|--------------|--------|--|--------------|
| Mitigated   | 34.0981 | 140.4958 | 400.3513 | 1.3264 | 108.1226 | 1.2743 | 109.3969 | 28.9001 | 1.1958 | 30.0959 |  | 134,546.2773 | 134,546.2773 | 7.0559 |  | 134,722.6747 |
| Unmitigated | 34.0981 | 140.4958 | 400.3513 | 1.3264 | 108.1226 | 1.2743 | 109.3969 | 28.9001 | 1.1958 | 30.0959 |  | 134,546.2773 | 134,546.2773 | 7.0559 |  | 134,722.6747 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |           |           | Unmitigated | Mitigated  |
|---------------------|-------------------------|-----------|-----------|-------------|------------|
| Land Use            | Weekday                 | Saturday  | Sunday    | Annual VMT  | Annual VMT |
| Apartments Low Rise | 16,435.46               | 17,857.04 | 15138.58  | 46,979,089  | 46,979,089 |
| Parking Lot         | 0.00                    | 0.00      | 0.00      |             |            |
| Total               | 16,435.46               | 17,857.04 | 15,138.58 | 46,979,089  | 46,979,089 |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LD11     | LD12     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| NaturalGas Unmitigated | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 76702.4        | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 76.7024        | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |



|       |  |        |        |        |        |  |        |        |  |        |        |  |            |            |        |        |            |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--------|------------|
| Total |  | 0.8272 | 7.0687 | 3.0079 | 0.0451 |  | 0.5715 | 0.5715 |  | 0.5715 | 0.5715 |  | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--------|------------|

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG        | NOx     | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2    | Total CO2   | CH4     | N2O    | CO2e         |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|-------------|-------------|---------|--------|--------------|
| Category    | lb/day     |         |            |        |               |              |            |                |               |             | lb/day      |             |             |         |        |              |
| Mitigated   | 86.9519    | 39.6281 | 222.9905   | 0.2486 |               | 4.1481       | 4.1481     |                | 4.1481        | 4.1481      | 0.0000      | 47,904.6952 | 47,904.6952 | 1.2763  | 0.8714 | 48,196.2905  |
| Unmitigated | 3,899.3998 | 76.9320 | 4,918.5776 | 8.5467 |               | 661.7253     | 661.7253   |                | 661.7253      | 661.7253    | 69,262.6964 | 29,419.7540 | 98,682.4505 | 64.2833 | 5.4480 | 101,913.0461 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG        | NOx     | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2    | Total CO2   | CH4     | N2O    | CO2e         |
|-----------------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|-------------|-------------|---------|--------|--------------|
| SubCategory           | lb/day     |         |            |        |               |              |            |                |               |             | lb/day      |             |             |         |        |              |
| Architectural Coating | 21.8997    |         |            |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |             |             | 0.0000      |         |        | 0.0000       |
| Consumer Products     | 54.3425    |         |            |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |             |             | 0.0000      |         |        | 0.0000       |
| Hearth                | 3,816.8050 | 74.5378 | 4,711.4312 | 8.5358 |               | 660.5876     | 660.5876   |                | 660.5876      | 660.5876    | 69,262.6964 | 29,047.7647 | 98,310.4612 | 63.9180 | 5.4480 | 101,531.9246 |

|              |                   |                |                   |               |  |                 |                 |  |                 |                 |                    |                    |                    |                |               |                     |
|--------------|-------------------|----------------|-------------------|---------------|--|-----------------|-----------------|--|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|---------------|---------------------|
| Landscaping  | 6.3526            | 2.3942         | 207.1463          | 0.0109        |  | 1.1377          | 1.1377          |  | 1.1377          | 1.1377          |                    | 371.9893           | 371.9893           | 0.3653         |               | 381.1215            |
| <b>Total</b> | <b>3,899.3998</b> | <b>76.9320</b> | <b>4,918.5775</b> | <b>8.5467</b> |  | <b>661.7253</b> | <b>661.7253</b> |  | <b>661.7253</b> | <b>661.7253</b> | <b>69,262.6964</b> | <b>29,419.7540</b> | <b>98,682.4505</b> | <b>64.2833</b> | <b>5.4480</b> | <b>101,913.0461</b> |

Mitigated

|                       | ROG            | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                 |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 21.8997        |                |                 |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 54.3425        |                |                 |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 4.3572         | 37.2340        | 15.8442         | 0.2377        |               | 3.0104        | 3.0104        |                | 3.0104        | 3.0104        | 0.0000        | 47,532.7059        | 47,532.7059        | 0.9110        | 0.8714        | 47,815.1690        |
| Landscaping           | 6.3526         | 2.3942         | 207.1463        | 0.0109        |               | 1.1377        | 1.1377        |                | 1.1377        | 1.1377        |               | 371.9893           | 371.9893           | 0.3653        |               | 381.1215           |
| <b>Total</b>          | <b>86.9519</b> | <b>39.6281</b> | <b>222.9905</b> | <b>0.2486</b> |               | <b>4.1481</b> | <b>4.1481</b> |                | <b>4.1481</b> | <b>4.1481</b> | <b>0.0000</b> | <b>47,904.6952</b> | <b>47,904.6952</b> | <b>1.2763</b> | <b>0.8714</b> | <b>48,196.2905</b> |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---

Encinitas HE - All Sites - San Diego County, Winter

## Encinitas HE - All Sites San Diego County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses           | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|----------|---------------|-------------|--------------------|------------|
| Parking Lot         | 6,853.00 | Space         | 61.68       | 2,741,200.00       | 0          |
| Apartments Low Rise | 2,494.00 | Dwelling Unit | 155.88      | 2,494,000.00       | 7133       |

#### 1.2 Other Project Characteristics

|                                     |                          |                                     |       |                                     |       |
|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                    | <b>Wind Speed (m/s)</b>             | 2.6   | <b>Precipitation Freq (Days)</b>    | 40    |
| <b>Climate Zone</b>                 | 13                       | <b>Operational Year</b>             | 2020  |                                     |       |
| <b>Utility Company</b>              | San Diego Gas & Electric |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 720.49                   | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase - operations only

Demolition -

Grading - site 10 = 16.9 acres

Construction Off-road Equipment Mitigation - standard dust control

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Woodstoves -

| Table Name             | Column Name                     | Default Value | New Value |
|------------------------|---------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction  | 0             | 6         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0             | 12        |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed    | 0             | 15        |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 3.5800 | 35.8292 | 22.4986 | 0.0400 | 0.1232        | 1.7958       | 1.9190     | 0.0327         | 1.6705        | 1.7032      | 0.0000   | 3,939.4364 | 3,939.4364 | 1.0658 | 0.0000 | 3,966.0810 |
| 2020    | 3.3745 | 33.2427 | 22.1541 | 0.0400 | 0.1232        | 1.6596       | 1.7828     | 0.0327         | 1.5427        | 1.5753      | 0.0000   | 3,866.3747 | 3,866.3747 | 1.0615 | 0.0000 | 3,892.9127 |
| Maximum | 3.5800 | 35.8292 | 22.4986 | 0.0400 | 0.1232        | 1.7958       | 1.9190     | 0.0327         | 1.6705        | 1.7032      | 0.0000   | 3,939.4364 | 3,939.4364 | 1.0658 | 0.0000 | 3,966.0810 |

Mitigated Construction

|      | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019 | 3.5800 | 35.8292 | 22.4986 | 0.0400 | 0.1168        | 1.7958       | 1.9126     | 0.0311         | 1.6705        | 1.7016      | 0.0000   | 3,939.4364 | 3,939.4364 | 1.0658 | 0.0000 | 3,966.0810 |

|         |        |         |         |        |        |        |        |        |        |        |        |            |            |        |        |            |
|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|------------|
| 2020    | 3.3745 | 33.2427 | 22.1541 | 0.0400 | 0.1168 | 1.6596 | 1.7764 | 0.0311 | 1.5427 | 1.5738 | 0.0000 | 3,866.3747 | 3,866.3747 | 1.0615 | 0.0000 | 3,892.9127 |
| Maximum | 3.5800 | 35.8292 | 22.4986 | 0.0400 | 0.1168 | 1.7958 | 1.9126 | 0.0311 | 1.6705 | 1.7016 | 0.0000 | 3,939.4364 | 3,939.4364 | 1.0658 | 0.0000 | 3,966.0810 |

|                   |      |      |      |      |               |              |            |                |               |             |          |          |           |      |      |      |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 5.21          | 0.00         | 0.35       | 4.80           | 0.00          | 0.10        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

|          |            |          |            |        |               |              |            |                |               |             |             |              |              |         |        |              |
|----------|------------|----------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|--------|--------------|
|          | ROG        | NOx      | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2     | Total CO2    | CH4     | N2O    | CO2e         |
| Category | lb/day     |          |            |        |               |              |            |                |               |             | lb/day      |              |              |         |        |              |
| Area     | 3,899.3998 | 76.9320  | 4,918.5776 | 8.5467 |               | 661.7253     | 661.7253   |                | 661.7253      | 661.7253    | 69,262.6964 | 29,419.7540  | 98,682.4505  | 64.2833 | 5.4480 | 101,913.0461 |
| Energy   | 0.8272     | 7.0687   | 3.0079     | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |             | 9,023.8105   | 9,023.8105   | 0.1730  | 0.1654 | 9,077.4345   |
| Mobile   | 33.1833    | 144.8544 | 394.0320   | 1.2573 | 108.1226      | 1.2828       | 109.4053   | 28.9001        | 1.2039        | 30.1039     |             | 127,582.9095 | 127,582.9095 | 7.0738  |        | 127,759.7546 |
| Total    | 3,933.4103 | 228.8551 | 5,315.6175 | 9.8492 | 108.1226      | 663.5795     | 771.7021   | 28.9001        | 663.5007      | 692.4007    | 69,262.6964 | 166,026.4740 | 235,289.1704 | 71.5300 | 5.6135 | 238,750.2352 |

Mitigated Operational

|          |         |         |          |        |               |              |            |                |               |             |          |             |             |        |        |             |
|----------|---------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
|          | ROG     | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2    | Total CO2   | CH4    | N2O    | CO2e        |
| Category | lb/day  |         |          |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| Area     | 86.9519 | 39.6281 | 222.9905 | 0.2486 |               | 4.1481       | 4.1481     |                | 4.1481        | 4.1481      | 0.0000   | 47,904.6952 | 47,904.6952 | 1.2763 | 0.8714 | 48,196.2905 |
| Energy   | 0.8272  | 7.0687  | 3.0079   | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105  | 9,023.8105  | 0.1730 | 0.1654 | 9,077.4345  |

|              |                 |                 |                 |               |                 |               |                 |                |               |                |               |                     |                     |               |               |                     |
|--------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|
| Mobile       | 33.1833         | 144.8544        | 394.0320        | 1.2573        | 108.1226        | 1.2828        | 109.4053        | 28.9001        | 1.2039        | 30.1039        |               | 127,582.9095        | 127,582.9095        | 7.0738        |               | 127,759.7546        |
| <b>Total</b> | <b>120.9624</b> | <b>191.5512</b> | <b>620.0305</b> | <b>1.5510</b> | <b>108.1226</b> | <b>6.0024</b> | <b>114.1249</b> | <b>28.9001</b> | <b>5.9235</b> | <b>34.8235</b> | <b>0.0000</b> | <b>184,511.4152</b> | <b>184,511.4152</b> | <b>8.5231</b> | <b>1.0369</b> | <b>185,033.4795</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 | 96.92 | 16.30 | 88.34 | 84.25 | 0.00          | 99.10        | 85.21      | 0.00           | 99.11         | 94.97       | 100.00   | -11.13   | 21.58     | 88.08 | 81.53 | 22.50 |

### 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 | 1/1/2019   | 2/24/2020 | 5             | 300      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 61.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### 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 | Excavators               | 3      | 8.00        | 158         | 0.38        |
| Demolition | Rubber Tired Dozers      | 2      | 8.00        | 247         | 0.40        |

#### 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 | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 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      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      |          | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

#### Unmitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232        | 8.8000e-004  | 0.1241     | 0.0327         | 8.1000e-004   | 0.0335      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |



|       |        |        |        |             |        |             |        |        |             |        |  |          |          |             |  |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|
| Total | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 |  | 122.5371 | 122.5371 | 3.9500e-003 |  | 122.6359 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|-------------|--|----------|

Mitigated Construction On-Site

|               | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2   | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |         |         |        | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 3.5134 | 35.7830 | 22.0600 | 0.0388 |               | 1.7949       | 1.7949     |                | 1.6697        | 1.6697      | 0.0000   | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |
| Total         | 3.5134 | 35.7830 | 22.0600 | 0.0388 | 0.0000        | 1.7949       | 1.7949     | 0.0000         | 1.6697        | 1.6697      | 0.0000   | 3,816.8994 | 3,816.8994 | 1.0618 |     | 3,843.4451 |

Mitigated Construction Off-Site

|          | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4         | N2O | CO2e     |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------------|-----|----------|
| Category | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |          |           |             |     |          |
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      |          | 0.0000   | 0.0000    | 0.0000      |     | 0.0000   |
| Worker   | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |
| Total    | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1168        | 8.8000e-004  | 0.1177     | 0.0311         | 8.1000e-004   | 0.0319      |          | 122.5371 | 122.5371  | 3.9500e-003 |     | 122.6359 |

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      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.3121        | 33.2010        | 21.7532        | 0.0388        |               | 1.6587        | 1.6587        |                | 1.5419        | 1.5419        |          | 3,747.7049        | 3,747.7049        | 1.0580        |     | 3,774.1536        |
| <b>Total</b>  | <b>3.3121</b> | <b>33.2010</b> | <b>21.7532</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.6587</b> | <b>1.6587</b> | <b>0.0000</b>  | <b>1.5419</b> | <b>1.5419</b> |          | <b>3,747.7049</b> | <b>3,747.7049</b> | <b>1.0580</b> |     | <b>3,774.1536</b> |

Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0623        | 0.0416        | 0.4009        | 1.1900e-003        | 0.1232        | 8.6000e-004        | 0.1241        | 0.0327         | 8.0000e-004        | 0.0335        |          | 118.6698        | 118.6698        | 3.5700e-003        |     | 118.7591        |
| <b>Total</b> | <b>0.0623</b> | <b>0.0416</b> | <b>0.4009</b> | <b>1.1900e-003</b> | <b>0.1232</b> | <b>8.6000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.0000e-004</b> | <b>0.0335</b> |          | <b>118.6698</b> | <b>118.6698</b> | <b>3.5700e-003</b> |     | <b>118.7591</b> |

Mitigated Construction On-Site

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

|               |               |                |                |               |               |               |               |               |               |               |               |                   |                   |               |  |                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               |                   | 0.0000            |               |  | 0.0000            |
| Off-Road      | 3.3121        | 33.2010        | 21.7532        | 0.0388        |               | 1.6587        | 1.6587        |               | 1.5419        | 1.5419        | 0.0000        | 3,747.7049        | 3,747.7049        | 1.0580        |  | 3,774.1536        |
| <b>Total</b>  | <b>3.3121</b> | <b>33.2010</b> | <b>21.7532</b> | <b>0.0388</b> | <b>0.0000</b> | <b>1.6587</b> | <b>1.6587</b> | <b>0.0000</b> | <b>1.5419</b> | <b>1.5419</b> | <b>0.0000</b> | <b>3,747.7049</b> | <b>3,747.7049</b> | <b>1.0580</b> |  | <b>3,774.1536</b> |

Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio-CO2        | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0623        | 0.0416        | 0.4009        | 1.1900e-003        | 0.1168        | 8.6000e-004        | 0.1177        | 0.0311         | 8.0000e-004        | 0.0319        |          | 118.6698        | 118.6698        | 3.5700e-003        |     | 118.7591        |
| <b>Total</b> | <b>0.0623</b> | <b>0.0416</b> | <b>0.4009</b> | <b>1.1900e-003</b> | <b>0.1168</b> | <b>8.6000e-004</b> | <b>0.1177</b> | <b>0.0311</b>  | <b>8.0000e-004</b> | <b>0.0319</b> |          | <b>118.6698</b> | <b>118.6698</b> | <b>3.5700e-003</b> |     | <b>118.7591</b> |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

|             |         |          |          |        |          |        |          |         |        |         |  |              |              |        |  |              |
|-------------|---------|----------|----------|--------|----------|--------|----------|---------|--------|---------|--|--------------|--------------|--------|--|--------------|
| Mitigated   | 33.1833 | 144.8544 | 394.0320 | 1.2573 | 108.1226 | 1.2828 | 109.4053 | 28.9001 | 1.2039 | 30.1039 |  | 127,582.9095 | 127,582.9095 | 7.0738 |  | 127,759.7546 |
| Unmitigated | 33.1833 | 144.8544 | 394.0320 | 1.2573 | 108.1226 | 1.2828 | 109.4053 | 28.9001 | 1.2039 | 30.1039 |  | 127,582.9095 | 127,582.9095 | 7.0738 |  | 127,759.7546 |

4.2 Trip Summary Information

|                     | Average Daily Trip Rate |           |           | Unmitigated | Mitigated  |
|---------------------|-------------------------|-----------|-----------|-------------|------------|
| Land Use            | Weekday                 | Saturday  | Sunday    | Annual VMT  | Annual VMT |
| Apartments Low Rise | 16,435.46               | 17,857.04 | 15138.58  | 46,979,089  | 46,979,089 |
| Parking Lot         | 0.00                    | 0.00      | 0.00      |             |            |
| Total               | 16,435.46               | 17,857.04 | 15,138.58 | 46,979,089  | 46,979,089 |

4.3 Trip Type Information

|                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use            | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |
| Parking Lot         | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LD11     | LD12     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |
| Parking Lot         | 0.588316 | 0.042913 | 0.184449 | 0.110793 | 0.017294 | 0.005558 | 0.015534 | 0.023021 | 0.001902 | 0.002024 | 0.006181 | 0.000745 | 0.001271 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| NaturalGas Unmitigated | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 76702.4        | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |
| Total               |                | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |

Mitigated

|                     | NaturalGas Use | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------------------|----------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Land Use            | kBTU/yr        | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Apartments Low Rise | 76.7024        | 0.8272 | 7.0687 | 3.0079 | 0.0451 |               | 0.5715       | 0.5715     |                | 0.5715        | 0.5715      |          | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
| Parking Lot         | 0              | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000     | 0.0000     | 0.0000 | 0.0000 | 0.0000     |

|       |  |        |        |        |        |  |        |        |  |        |        |  |            |            |        |        |            |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--------|------------|
| Total |  | 0.8272 | 7.0687 | 3.0079 | 0.0451 |  | 0.5715 | 0.5715 |  | 0.5715 | 0.5715 |  | 9,023.8105 | 9,023.8105 | 0.1730 | 0.1654 | 9,077.4345 |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--------|------------|

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

|             | ROG        | NOx     | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4     | N2O    | CO2e         |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|-------------|-------------|---------|--------|--------------|
| Category    | lb/day     |         |            |        |               |              |            |                |               |             | lb/day      |             |             |         |        |              |
| Mitigated   | 86.9519    | 39.6281 | 222.9905   | 0.2486 |               | 4.1481       | 4.1481     |                | 4.1481        | 4.1481      | 0.0000      | 47,904.6952 | 47,904.6952 | 1.2763  | 0.8714 | 48,196.2905  |
| Unmitigated | 3,899.3998 | 76.9320 | 4,918.5776 | 8.5467 |               | 661.7253     | 661.7253   |                | 661.7253      | 661.7253    | 69,262.6964 | 29,419.7540 | 98,682.4505 | 64.2833 | 5.4480 | 101,913.0461 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG        | NOx     | CO         | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4     | N2O    | CO2e         |
|-----------------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|-------------|-------------|---------|--------|--------------|
| SubCategory           | lb/day     |         |            |        |               |              |            |                |               |             | lb/day      |             |             |         |        |              |
| Architectural Coating | 21.8997    |         |            |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |             |             | 0.0000      |         |        | 0.0000       |
| Consumer Products     | 54.3425    |         |            |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |             |             | 0.0000      |         |        | 0.0000       |
| Hearth                | 3,816.8050 | 74.5378 | 4,711.4312 | 8.5358 |               | 660.5876     | 660.5876   |                | 660.5876      | 660.5876    | 69,262.6964 | 29,047.7647 | 98,310.4612 | 63.9180 | 5.4480 | 101,531.9246 |

|              |                   |                |                   |               |  |                 |                 |  |                 |                 |                    |                    |                    |                |               |                     |
|--------------|-------------------|----------------|-------------------|---------------|--|-----------------|-----------------|--|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|---------------|---------------------|
| Landscaping  | 6.3526            | 2.3942         | 207.1463          | 0.0109        |  | 1.1377          | 1.1377          |  | 1.1377          | 1.1377          |                    | 371.9893           | 371.9893           | 0.3653         |               | 381.1215            |
| <b>Total</b> | <b>3,899.3998</b> | <b>76.9320</b> | <b>4,918.5775</b> | <b>8.5467</b> |  | <b>661.7253</b> | <b>661.7253</b> |  | <b>661.7253</b> | <b>661.7253</b> | <b>69,262.6964</b> | <b>29,419.7540</b> | <b>98,682.4505</b> | <b>64.2833</b> | <b>5.4480</b> | <b>101,913.0461</b> |

Mitigated

|                       | ROG            | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio-CO2           | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                 |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 21.8997        |                |                 |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 54.3425        |                |                 |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 4.3572         | 37.2340        | 15.8442         | 0.2377        |               | 3.0104        | 3.0104        |                | 3.0104        | 3.0104        | 0.0000        | 47,532.7059        | 47,532.7059        | 0.9110        | 0.8714        | 47,815.1690        |
| Landscaping           | 6.3526         | 2.3942         | 207.1463        | 0.0109        |               | 1.1377        | 1.1377        |                | 1.1377        | 1.1377        |               | 371.9893           | 371.9893           | 0.3653        |               | 381.1215           |
| <b>Total</b>          | <b>86.9519</b> | <b>39.6281</b> | <b>222.9905</b> | <b>0.2486</b> |               | <b>4.1481</b> | <b>4.1481</b> |                | <b>4.1481</b> | <b>4.1481</b> | <b>0.0000</b> | <b>47,904.6952</b> | <b>47,904.6952</b> | <b>1.2763</b> | <b>0.8714</b> | <b>48,196.2905</b> |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

---