

## Ananda Village: Run 2 - Temple Operational Nevada County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

| Land Uses        | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------|-------|----------|-------------|--------------------|------------|
| Place of Worship | 11.00 | 1000sqft | 0.25        | 11,000.00          | 0          |

#### 1.2 Other Project Characteristics

|                                |                                |                                |       |                                  |       |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Rural                          | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 80    |
| <b>Climate Zone</b>            | 1                              |                                |       | <b>Operational Year</b>          | 2019  |
| <b>Utility Company</b>         | Pacific Gas & Electric Company |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 445                            | <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 - Used PG&E's 2012 CO2 intensity factor.

Land Use - N/A

Construction Phase -

Grading - Ananda has indicated 500 cy cut/fill. Split difference and assumed 250 cy cut and 250 fill and all material hauled to be conservative.

Energy Use - N/A

Land Use Change -

Sequestration -

Mobile Land Use Mitigation -

Water Mitigation -

| Table Name                | Column Name        | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblGrading                | MaterialExported   | 0.00          | 250.00    |
| tblGrading                | MaterialImported   | 0.00          | 250.00    |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35        | 445       |
| tblProjectCharacteristics | OperationalYear    | 2014          | 2019      |
| tblProjectCharacteristics | UrbanizationLevel  | Urban         | Rural     |
| tblSequestration          | NumberOfNewTrees   | 0.00          | 2.00      |

## 2.0 Emissions Summary

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr          |                 |                 |               |                    |                 |
| Area         | 0.0557        | 0.0000        | 1.0000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000         | 2.0000e-004     | 2.0000e-004     | 0.0000        | 0.0000             | 2.1000e-004     |
| Energy       | 2.2000e-004   | 1.9800e-003   | 1.6700e-003   | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004   |                | 1.5000e-004        | 1.5000e-004   | 0.0000         | 12.6624         | 12.6624         | 7.3000e-004   | 1.8000e-004        | 12.7338         |
| Mobile       | 0.1263        | 0.2774        | 1.2913        | 1.5800e-003        | 0.0913        | 3.3200e-003        | 0.0946        | 0.0246         | 3.0500e-003        | 0.0276        | 0.0000         | 118.6482        | 118.6482        | 4.4900e-003   | 0.0000             | 118.7424        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 12.7275        | 0.0000          | 12.7275         | 0.7522        | 0.0000             | 28.5232         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.1092         | 0.7562          | 0.8654          | 0.0113        | 2.8000e-004        | 1.1872          |
| <b>Total</b> | <b>0.1822</b> | <b>0.2793</b> | <b>1.2931</b> | <b>1.5900e-003</b> | <b>0.0913</b> | <b>3.4700e-003</b> | <b>0.0948</b> | <b>0.0246</b>  | <b>3.2000e-003</b> | <b>0.0278</b> | <b>12.8367</b> | <b>132.0670</b> | <b>144.9037</b> | <b>0.7687</b> | <b>4.6000e-004</b> | <b>161.1869</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr          |                 |                 |               |                    |                 |
| Area         | 0.0557        | 0.0000        | 1.0000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000         | 2.0000e-004     | 2.0000e-004     | 0.0000        | 0.0000             | 2.1000e-004     |
| Energy       | 2.2000e-004   | 1.9800e-003   | 1.6700e-003   | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004   |                | 1.5000e-004        | 1.5000e-004   | 0.0000         | 12.6624         | 12.6624         | 7.3000e-004   | 1.8000e-004        | 12.7338         |
| Mobile       | 0.1260        | 0.2753        | 1.2869        | 1.5600e-003        | 0.0904        | 3.2900e-003        | 0.0937        | 0.0243         | 3.0200e-003        | 0.0273        | 0.0000         | 117.5255        | 117.5255        | 4.4500e-003   | 0.0000             | 117.6190        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 12.7275        | 0.0000          | 12.7275         | 0.7522        | 0.0000             | 28.5232         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.1092         | 0.7562          | 0.8654          | 0.0113        | 2.7000e-004        | 1.1871          |
| <b>Total</b> | <b>0.1820</b> | <b>0.2772</b> | <b>1.2887</b> | <b>1.5700e-003</b> | <b>0.0904</b> | <b>3.4400e-003</b> | <b>0.0939</b> | <b>0.0243</b>  | <b>3.1700e-003</b> | <b>0.0275</b> | <b>12.8367</b> | <b>130.9443</b> | <b>143.7810</b> | <b>0.7686</b> | <b>4.5000e-004</b> | <b>160.0633</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2    | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.14</b> | <b>0.75</b> | <b>0.34</b> | <b>1.26</b> | <b>1.00</b>   | <b>0.86</b>  | <b>0.99</b> | <b>0.98</b>    | <b>0.94</b>   | <b>0.97</b> | <b>0.00</b> | <b>0.85</b> | <b>0.77</b> | <b>0.01</b> | <b>2.17</b> | <b>0.70</b> |

### 2.3 Vegetation

#### Vegetation

|                        |                |
|------------------------|----------------|
|                        | CO2e           |
| Category               | MT             |
| New Trees              | 1.4160         |
| Vegetation Land Change | -2.1550        |
| <b>Total</b>           | <b>-0.7390</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/13/2018  | 1/15/2018 | 5             | 1        |                   |
| 2            | Grading               | Grading               | 1/16/2018  | 1/17/2018 | 5             | 2        |                   |
| 3            | Building Construction | Building Construction | 1/18/2018  | 6/6/2018  | 5             | 100      |                   |
| 4            | Paving                | Paving                | 6/7/2018   | 6/13/2018 | 5             | 5        |                   |
| 5            | Architectural Coating | Architectural Coating | 6/14/2018  | 6/20/2018 | 5             | 5        |                   |

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,500; Non-Residential Outdoor: 5,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                    | 1      | 4.00        | 226         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 174         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 125         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 255         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation      | 2                       | 5.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 25.00               | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 5.00               | 2.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

### 3.2 Site Preparation - 2018

#### 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 |                    |                    |                    |               | 2.7000e-004        | 0.0000             | 2.7000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 5.5000e-004        | 5.4700e-003        | 3.5000e-003        | 0.0000        |                    | 3.3000e-004        | 3.3000e-004        |                    | 3.0000e-004        | 3.0000e-004        | 0.0000        | 0.4257        | 0.4257        | 1.3000e-004        | 0.0000        | 0.4285        |
| <b>Total</b>  | <b>5.5000e-004</b> | <b>5.4700e-003</b> | <b>3.5000e-003</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>3.3000e-004</b> | <b>6.0000e-004</b> | <b>3.0000e-005</b> | <b>3.0000e-004</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>0.4257</b> | <b>0.4257</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.4285</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       | 1.0000e-005        | 2.0000e-005        | 1.5000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0242        | 0.0242        | 0.0000        | 0.0000        | 0.0242        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>2.0000e-005</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0242</b> | <b>0.0242</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0242</b> |



### 3.2 Site Preparation - 2018

#### Mitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |               |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |               | 2.7000e-004        | 0.0000             | 2.7000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 5.5000e-004        | 5.4700e-003        | 3.5000e-003        | 0.0000        |                    | 3.3000e-004        | 3.3000e-004        |                    | 3.0000e-004        | 3.0000e-004        | 0.0000        | 0.4257        | 0.4257        | 1.3000e-004        | 0.0000        | 0.4285        |
| <b>Total</b>  | <b>5.5000e-004</b> | <b>5.4700e-003</b> | <b>3.5000e-003</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>3.3000e-004</b> | <b>6.0000e-004</b> | <b>3.0000e-005</b> | <b>3.0000e-004</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>0.4257</b> | <b>0.4257</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.4285</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       | 1.0000e-005        | 2.0000e-005        | 1.5000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0242        | 0.0242        | 0.0000        | 0.0000        | 0.0242        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>2.0000e-005</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0242</b> | <b>0.0242</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0242</b> |

### 3.3 Grading - 2018

#### 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 |                    |                    |                    |                    | 7.5000e-004        | 0.0000             | 7.5000e-004        | 4.1000e-004        | 0.0000             | 4.1000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.0500e-003        | 9.3200e-003        | 8.3500e-003        | 1.0000e-005        |                    | 6.1000e-004        | 6.1000e-004        |                    | 5.9000e-004        | 5.9000e-004        | 0.0000        | 1.0649        | 1.0649        | 2.1000e-004        | 0.0000        | 1.0692        |
| <b>Total</b>  | <b>1.0500e-003</b> | <b>9.3200e-003</b> | <b>8.3500e-003</b> | <b>1.0000e-005</b> | <b>7.5000e-004</b> | <b>6.1000e-004</b> | <b>1.3600e-003</b> | <b>4.1000e-004</b> | <b>5.9000e-004</b> | <b>1.0000e-003</b> | <b>0.0000</b> | <b>1.0649</b> | <b>1.0649</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.0692</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      | 3.8000e-004        | 2.8900e-003        | 4.3900e-003        | 1.0000e-005        | 2.1000e-004        | 4.0000e-005        | 2.5000e-004        | 6.0000e-005        | 4.0000e-005        | 1.0000e-004        | 0.0000        | 0.8311        | 0.8311        | 1.0000e-005        | 0.0000        | 0.8312        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 4.0000e-005        | 7.0000e-005        | 5.9000e-004        | 0.0000             | 1.2000e-004        | 0.0000             | 1.2000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0968        | 0.0968        | 0.0000             | 0.0000        | 0.0969        |
| <b>Total</b> | <b>4.2000e-004</b> | <b>2.9600e-003</b> | <b>4.9800e-003</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>4.0000e-005</b> | <b>3.7000e-004</b> | <b>9.0000e-005</b> | <b>4.0000e-005</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.9279</b> | <b>0.9279</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.9282</b> |

### 3.3 Grading - 2018

#### 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 |                    |                    |                    |                    | 7.5000e-004        | 0.0000             | 7.5000e-004        | 4.1000e-004        | 0.0000             | 4.1000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.0500e-003        | 9.3200e-003        | 8.3500e-003        | 1.0000e-005        |                    | 6.1000e-004        | 6.1000e-004        |                    | 5.9000e-004        | 5.9000e-004        | 0.0000        | 1.0649        | 1.0649        | 2.1000e-004        | 0.0000        | 1.0692        |
| <b>Total</b>  | <b>1.0500e-003</b> | <b>9.3200e-003</b> | <b>8.3500e-003</b> | <b>1.0000e-005</b> | <b>7.5000e-004</b> | <b>6.1000e-004</b> | <b>1.3600e-003</b> | <b>4.1000e-004</b> | <b>5.9000e-004</b> | <b>1.0000e-003</b> | <b>0.0000</b> | <b>1.0649</b> | <b>1.0649</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.0692</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      | 3.8000e-004        | 2.8900e-003        | 4.3900e-003        | 1.0000e-005        | 2.1000e-004        | 4.0000e-005        | 2.5000e-004        | 6.0000e-005        | 4.0000e-005        | 1.0000e-004        | 0.0000        | 0.8311        | 0.8311        | 1.0000e-005        | 0.0000        | 0.8312        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 4.0000e-005        | 7.0000e-005        | 5.9000e-004        | 0.0000             | 1.2000e-004        | 0.0000             | 1.2000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0968        | 0.0968        | 0.0000             | 0.0000        | 0.0969        |
| <b>Total</b> | <b>4.2000e-004</b> | <b>2.9600e-003</b> | <b>4.9800e-003</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>4.0000e-005</b> | <b>3.7000e-004</b> | <b>9.0000e-005</b> | <b>4.0000e-005</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.9279</b> | <b>0.9279</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.9282</b> |

### 3.4 Building Construction - 2018

#### 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     | 0.0539        | 0.5479        | 0.3862        | 5.7000e-004        |               | 0.0353        | 0.0353        |                | 0.0325        | 0.0325        | 0.0000        | 51.7208        | 51.7208        | 0.0161        | 0.0000        | 52.0589        |
| <b>Total</b> | <b>0.0539</b> | <b>0.5479</b> | <b>0.3862</b> | <b>5.7000e-004</b> |               | <b>0.0353</b> | <b>0.0353</b> |                | <b>0.0325</b> | <b>0.0325</b> | <b>0.0000</b> | <b>51.7208</b> | <b>51.7208</b> | <b>0.0161</b> | <b>0.0000</b> | <b>52.0589</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       | 1.5700e-003        | 7.8800e-003        | 0.0197        | 2.0000e-005        | 5.8000e-004        | 1.2000e-004        | 7.0000e-004        | 1.7000e-004        | 1.1000e-004        | 2.8000e-004        | 0.0000        | 1.9247        | 1.9247        | 2.0000e-005        | 0.0000        | 1.9250        |
| Worker       | 9.3000e-004        | 1.7000e-003        | 0.0147        | 4.0000e-005        | 3.0400e-003        | 2.0000e-005        | 3.0600e-003        | 8.1000e-004        | 2.0000e-005        | 8.3000e-004        | 0.0000        | 2.4209        | 2.4209        | 1.2000e-004        | 0.0000        | 2.4235        |
| <b>Total</b> | <b>2.5000e-003</b> | <b>9.5800e-003</b> | <b>0.0343</b> | <b>6.0000e-005</b> | <b>3.6200e-003</b> | <b>1.4000e-004</b> | <b>3.7600e-003</b> | <b>9.8000e-004</b> | <b>1.3000e-004</b> | <b>1.1100e-003</b> | <b>0.0000</b> | <b>4.3457</b> | <b>4.3457</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>4.3486</b> |

### 3.4 Building Construction - 2018

#### 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     | 0.0539        | 0.5479        | 0.3862        | 5.7000e-004        |               | 0.0353        | 0.0353        |                | 0.0325        | 0.0325        | 0.0000        | 51.7208        | 51.7208        | 0.0161        | 0.0000        | 52.0589        |
| <b>Total</b> | <b>0.0539</b> | <b>0.5479</b> | <b>0.3862</b> | <b>5.7000e-004</b> |               | <b>0.0353</b> | <b>0.0353</b> |                | <b>0.0325</b> | <b>0.0325</b> | <b>0.0000</b> | <b>51.7208</b> | <b>51.7208</b> | <b>0.0161</b> | <b>0.0000</b> | <b>52.0589</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       | 1.5700e-003        | 7.8800e-003        | 0.0197        | 2.0000e-005        | 5.8000e-004        | 1.2000e-004        | 7.0000e-004        | 1.7000e-004        | 1.1000e-004        | 2.8000e-004        | 0.0000        | 1.9247        | 1.9247        | 2.0000e-005        | 0.0000        | 1.9250        |
| Worker       | 9.3000e-004        | 1.7000e-003        | 0.0147        | 4.0000e-005        | 3.0400e-003        | 2.0000e-005        | 3.0600e-003        | 8.1000e-004        | 2.0000e-005        | 8.3000e-004        | 0.0000        | 2.4209        | 2.4209        | 1.2000e-004        | 0.0000        | 2.4235        |
| <b>Total</b> | <b>2.5000e-003</b> | <b>9.5800e-003</b> | <b>0.0343</b> | <b>6.0000e-005</b> | <b>3.6200e-003</b> | <b>1.4000e-004</b> | <b>3.7600e-003</b> | <b>9.8000e-004</b> | <b>1.3000e-004</b> | <b>1.1100e-003</b> | <b>0.0000</b> | <b>4.3457</b> | <b>4.3457</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>4.3486</b> |

**3.5 Paving - 2018****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     | 2.2700e-003        | 0.0216        | 0.0178        | 3.0000e-005        |               | 1.2600e-003        | 1.2600e-003        |                | 1.1700e-003        | 1.1700e-003        | 0.0000        | 2.3909        | 2.3909        | 6.7000e-004        | 0.0000        | 2.4051        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.2700e-003</b> | <b>0.0216</b> | <b>0.0178</b> | <b>3.0000e-005</b> |               | <b>1.2600e-003</b> | <b>1.2600e-003</b> |                | <b>1.1700e-003</b> | <b>1.1700e-003</b> | <b>0.0000</b> | <b>2.3909</b> | <b>2.3909</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.4051</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.7000e-004        | 3.1000e-004        | 2.6400e-003        | 1.0000e-005        | 5.5000e-004        | 0.0000        | 5.5000e-004        | 1.5000e-004        | 0.0000        | 1.5000e-004        | 0.0000        | 0.4358        | 0.4358        | 2.0000e-005        | 0.0000        | 0.4362        |
| <b>Total</b> | <b>1.7000e-004</b> | <b>3.1000e-004</b> | <b>2.6400e-003</b> | <b>1.0000e-005</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>5.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.4358</b> | <b>0.4358</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.4362</b> |

### 3.5 Paving - 2018

#### 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     | 2.2700e-003        | 0.0216        | 0.0178        | 3.0000e-005        |               | 1.2600e-003        | 1.2600e-003        |                | 1.1700e-003        | 1.1700e-003        | 0.0000        | 2.3909        | 2.3909        | 6.7000e-004        | 0.0000        | 2.4051        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.2700e-003</b> | <b>0.0216</b> | <b>0.0178</b> | <b>3.0000e-005</b> |               | <b>1.2600e-003</b> | <b>1.2600e-003</b> |                | <b>1.1700e-003</b> | <b>1.1700e-003</b> | <b>0.0000</b> | <b>2.3909</b> | <b>2.3909</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.4051</b> |

#### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.7000e-004        | 3.1000e-004        | 2.6400e-003        | 1.0000e-005        | 5.5000e-004        | 0.0000        | 5.5000e-004        | 1.5000e-004        | 0.0000        | 1.5000e-004        | 0.0000        | 0.4358        | 0.4358        | 2.0000e-005        | 0.0000        | 0.4362        |
| <b>Total</b> | <b>1.7000e-004</b> | <b>3.1000e-004</b> | <b>2.6400e-003</b> | <b>1.0000e-005</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>5.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.4358</b> | <b>0.4358</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.4362</b> |

### 3.6 Architectural Coating - 2018

#### Unmitigated Construction On-Site

|                 | ROG           | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.1275        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 7.5000e-004   | 5.0100e-003        | 4.6400e-003        | 1.0000e-005        |               | 3.8000e-004        | 3.8000e-004        |                | 3.8000e-004        | 3.8000e-004        | 0.0000        | 0.6383        | 0.6383        | 6.0000e-005        | 0.0000        | 0.6396        |
| <b>Total</b>    | <b>0.1282</b> | <b>5.0100e-003</b> | <b>4.6400e-003</b> | <b>1.0000e-005</b> |               | <b>3.8000e-004</b> | <b>3.8000e-004</b> |                | <b>3.8000e-004</b> | <b>3.8000e-004</b> | <b>0.0000</b> | <b>0.6383</b> | <b>0.6383</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.6396</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       | 1.0000e-005        | 2.0000e-005        | 1.5000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0242        | 0.0242        | 0.0000        | 0.0000        | 0.0242        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>2.0000e-005</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0242</b> | <b>0.0242</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0242</b> |



### 3.6 Architectural Coating - 2018

#### Mitigated Construction On-Site

|                 | ROG           | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.1275        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 7.5000e-004   | 5.0100e-003        | 4.6400e-003        | 1.0000e-005        |               | 3.8000e-004        | 3.8000e-004        |                | 3.8000e-004        | 3.8000e-004        | 0.0000        | 0.6383        | 0.6383        | 6.0000e-005        | 0.0000        | 0.6396        |
| <b>Total</b>    | <b>0.1282</b> | <b>5.0100e-003</b> | <b>4.6400e-003</b> | <b>1.0000e-005</b> |               | <b>3.8000e-004</b> | <b>3.8000e-004</b> |                | <b>3.8000e-004</b> | <b>3.8000e-004</b> | <b>0.0000</b> | <b>0.6383</b> | <b>0.6383</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.6396</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       | 1.0000e-005        | 2.0000e-005        | 1.5000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0242        | 0.0242        | 0.0000        | 0.0000        | 0.0242        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>2.0000e-005</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0242</b> | <b>0.0242</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0242</b> |

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Improve Pedestrian Network

|             | ROG     | NOx    | CO     | SO2         | Fugitive 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   | 0.1260  | 0.2753 | 1.2869 | 1.5600e-003 | 0.0904        | 3.2900e-003  | 0.0937     | 0.0243         | 3.0200e-003   | 0.0273      | 0.0000   | 117.5255  | 117.5255  | 4.4500e-003 | 0.0000 | 117.6190 |
| Unmitigated | 0.1263  | 0.2774 | 1.2913 | 1.5800e-003 | 0.0913        | 3.3200e-003  | 0.0946     | 0.0246         | 3.0500e-003   | 0.0276      | 0.0000   | 118.6482  | 118.6482  | 4.4900e-003 | 0.0000 | 118.7424 |

### 4.2 Trip Summary Information

| Land Use         | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|------------------|-------------------------|----------|--------|-------------|------------|
|                  | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Place of Worship | 100.21                  | 114.07   | 402.93 | 246,032     | 243,572    |
| Total            | 100.21                  | 114.07   | 402.93 | 246,032     | 243,572    |

### 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 |
| Place of Worship | 14.70      | 6.60       | 6.60        | 0.00       | 95.00      | 5.00        | 64             | 25       | 11      |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.336638 | 0.055996 | 0.254972 | 0.152543 | 0.080267 | 0.009426 | 0.018056 | 0.074926 | 0.001646 | 0.000532 | 0.009401 | 0.000598 | 0.004999 |

### 5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                         | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category                | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |             |         |
| Electricity Mitigated   |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 10.5022   | 10.5022   | 6.8000e-004 | 1.4000e-004 | 10.5605 |
| Electricity Unmitigated |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 10.5022   | 10.5022   | 6.8000e-004 | 1.4000e-004 | 10.5605 |
| NaturalGas Mitigated    | 2.2000e-004 | 1.9800e-003 | 1.6700e-003 | 1.0000e-005 |               | 1.5000e-004  | 1.5000e-004 |                | 1.5000e-004   | 1.5000e-004 | 0.0000   | 2.1602    | 2.1602    | 4.0000e-005 | 4.0000e-005 | 2.1733  |
| NaturalGas Unmitigated  | 2.2000e-004 | 1.9800e-003 | 1.6700e-003 | 1.0000e-005 |               | 1.5000e-004  | 1.5000e-004 |                | 1.5000e-004   | 1.5000e-004 | 0.0000   | 2.1602    | 2.1602    | 4.0000e-005 | 4.0000e-005 | 2.1733  |

### 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         |               |               |                    |                    |               |
| Place of Worship | 40480          | 2.2000e-004        | 1.9800e-003        | 1.6700e-003        | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004        |                | 1.5000e-004        | 1.5000e-004        | 0.0000        | 2.1602        | 2.1602        | 4.0000e-005        | 4.0000e-005        | 2.1733        |
| <b>Total</b>     |                | <b>2.2000e-004</b> | <b>1.9800e-003</b> | <b>1.6700e-003</b> | <b>1.0000e-005</b> |               | <b>1.5000e-004</b> | <b>1.5000e-004</b> |                | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>2.1602</b> | <b>2.1602</b> | <b>4.0000e-005</b> | <b>4.0000e-005</b> | <b>2.1733</b> |

### 5.2 Energy by Land Use - NaturalGas

#### 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         |               |               |                    |                    |               |
| Place of Worship | 40480          | 2.2000e-004        | 1.9800e-003        | 1.6700e-003        | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004        |                | 1.5000e-004        | 1.5000e-004        | 0.0000        | 2.1602        | 2.1602        | 4.0000e-005        | 4.0000e-005        | 2.1733        |
| <b>Total</b>     |                | <b>2.2000e-004</b> | <b>1.9800e-003</b> | <b>1.6700e-003</b> | <b>1.0000e-005</b> |               | <b>1.5000e-004</b> | <b>1.5000e-004</b> |                | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>2.1602</b> | <b>2.1602</b> | <b>4.0000e-005</b> | <b>4.0000e-005</b> | <b>2.1733</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                  | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use         | kWh/yr          | MT/yr          |                    |                    |                |
| Place of Worship | 52030           | 10.5022        | 6.8000e-004        | 1.4000e-004        | 10.5605        |
| <b>Total</b>     |                 | <b>10.5022</b> | <b>6.8000e-004</b> | <b>1.4000e-004</b> | <b>10.5605</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                  | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use         | kWh/yr          | MT/yr          |                    |                    |                |
| Place of Worship | 52030           | 10.5022        | 6.8000e-004        | 1.4000e-004        | 10.5605        |
| <b>Total</b>     |                 | <b>10.5022</b> | <b>6.8000e-004</b> | <b>1.4000e-004</b> | <b>10.5605</b> |

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 0.0557  | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |
| Unmitigated | 0.0557  | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr       |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0128        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.0430        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.0000e-004        | 2.0000e-004        | 0.0000        | 0.0000        | 2.1000e-004        |
| <b>Total</b>          | <b>0.0557</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.1000e-004</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         |                    |                    |               |               |                    |
| Consumer Products     | 0.0430        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.0000e-004        | 2.0000e-004        | 0.0000        | 0.0000        | 2.1000e-004        |
| Architectural Coating | 0.0128        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| <b>Total</b>          | <b>0.0557</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.1000e-004</b> |

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4    | N2O         | CO2e   |
|-------------|-----------|--------|-------------|--------|
| Category    | MT/yr     |        |             |        |
| Mitigated   | 0.8654    | 0.0113 | 2.7000e-004 | 1.1871 |
| Unmitigated | 0.8654    | 0.0113 | 2.8000e-004 | 1.1872 |

### 7.2 Water by Land Use

#### Unmitigated

|                  | Indoor/Outdoor Use | Total CO2     | CH4           | N2O                | CO2e          |
|------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use         | Mgal               | MT/yr         |               |                    |               |
| Place of Worship | 0.344178 / 0.53833 | 0.8654        | 0.0113        | 2.8000e-004        | 1.1872        |
| <b>Total</b>     |                    | <b>0.8654</b> | <b>0.0113</b> | <b>2.8000e-004</b> | <b>1.1872</b> |

## 7.2 Water by Land Use

### Mitigated

|                  | Indoor/Outdoor Use | Total CO2     | CH4           | N2O                | CO2e          |
|------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use         | Mgal               | MT/yr         |               |                    |               |
| Place of Worship | 0.344178 / 0.53833 | 0.8654        | 0.0113        | 2.7000e-004        | 1.1871        |
| <b>Total</b>     |                    | <b>0.8654</b> | <b>0.0113</b> | <b>2.7000e-004</b> | <b>1.1871</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 12.7275   | 0.7522 | 0.0000 | 28.5232 |
| Unmitigated | 12.7275   | 0.7522 | 0.0000 | 28.5232 |



## 8.2 Waste by Land Use

### Unmitigated

|                  | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use         | tons           | MT/yr          |               |               |                |
| Place of Worship | 62.7           | 12.7275        | 0.7522        | 0.0000        | 28.5232        |
| <b>Total</b>     |                | <b>12.7275</b> | <b>0.7522</b> | <b>0.0000</b> | <b>28.5232</b> |

### Mitigated

|                  | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use         | tons           | MT/yr          |               |               |                |
| Place of Worship | 62.7           | 12.7275        | 0.7522        | 0.0000        | 28.5232        |
| <b>Total</b>     |                | <b>12.7275</b> | <b>0.7522</b> | <b>0.0000</b> | <b>28.5232</b> |

## 9.0 Operational Offroad

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

## 10.0 Vegetation

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|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
| Category    | MT        |        |        |         |
| Unmitigated | -0.7390   | 0.0000 | 0.0000 | -0.7390 |

## 10.1 Vegetation Land Change

### Vegetation Type

|              | Initial/Final | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|----------------|---------------|---------------|----------------|
|              | Acres         | MT             |               |               |                |
| Grassland    | 0.5 / 0       | -2.1550        | 0.0000        | 0.0000        | -2.1550        |
| <b>Total</b> |               | <b>-2.1550</b> | <b>0.0000</b> | <b>0.0000</b> | <b>-2.1550</b> |

**10.2 Net New Trees**

**Species Class**

|               | Number of Trees | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|-----------------|---------------|---------------|---------------|---------------|
|               |                 | MT            |               |               |               |
| Miscellaneous | 2               | 1.4160        | 0.0000        | 0.0000        | 1.4160        |
| <b>Total</b>  |                 | <b>1.4160</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.4160</b> |