

# **APPENDIX G**

## ***Global Climate Change***



**Colton Lee**  
**Ventura County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses             | Size | Metric        |
|-----------------------|------|---------------|
| Single Family Housing | 100  | Dwelling Unit |

**1.2 Other Project Characteristics**

|                     |       |                                  |     |                        |                            |
|---------------------|-------|----------------------------------|-----|------------------------|----------------------------|
| <b>Urbanization</b> | Urban | <b>Wind Speed (m/s)</b>          | 2.6 | <b>Utility Company</b> | Southern California Edison |
| <b>Climate Zone</b> | 8     | <b>Precipitation Freq (Days)</b> | 31  |                        |                            |

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - Modified
- Construction Phase - Modified
- Off-road Equipment - Modified
- Off-road Equipment - Modified
- Off-road Equipment - Modified
- Off-road Equipment - Modified
- Off-road Equipment -

- Off-road Equipment - Modified
- Grading - Modified
- Demolition -
- Trips and VMT - Modified
- Architectural Coating - Modified
- Area Coating - Modified
- Water And Wastewater - Modified
- Vehicle Trips - Modified

## 2.0 Emissions Summary

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### 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       |               |               |             |             |               |
| 2012         | 0.78        | 2.08        | 1.34        | 0.00        | 0.04          | 0.15         | 0.19        | 0.00           | 0.15          | 0.15        | 0.00        | 195.72        | 195.72        | 0.03        | 0.00        | 196.25        |
| <b>Total</b> | <b>0.78</b> | <b>2.08</b> | <b>1.34</b> | <b>0.00</b> | <b>0.04</b>   | <b>0.15</b>  | <b>0.19</b> | <b>0.00</b>    | <b>0.15</b>   | <b>0.15</b> | <b>0.00</b> | <b>195.72</b> | <b>195.72</b> | <b>0.03</b> | <b>0.00</b> | <b>196.25</b> |

#### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2012         | 0.78        | 2.08        | 1.34        | 0.00        | 0.03          | 0.15         | 0.18        | 0.00           | 0.15          | 0.15        | 0.00        | 195.72        | 195.72        | 0.03        | 0.00        | 196.25        |
| <b>Total</b> | <b>0.78</b> | <b>2.08</b> | <b>1.34</b> | <b>0.00</b> | <b>0.03</b>   | <b>0.15</b>  | <b>0.18</b> | <b>0.00</b>    | <b>0.15</b>   | <b>0.15</b> | <b>0.00</b> | <b>195.72</b> | <b>195.72</b> | <b>0.03</b> | <b>0.00</b> | <b>196.25</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2     | NBio- CO2       | Total CO2       | CH4         | N2O         | CO2e            |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|-----------------|-----------------|-------------|-------------|-----------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr        |                 |                 |             |             |                 |
| Area         | 0.54        | 0.01        | 0.77        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 1.23            | 1.23            | 0.00        | 0.00        | 1.25            |
| Energy       | 0.02        | 0.19        | 0.08        | 0.00        |               | 0.00         | 0.02        |                | 0.00          | 0.02        | 0.00         | 413.36          | 413.36          | 0.01        | 0.01        | 415.91          |
| Mobile       | 0.68        | 1.17        | 6.08        | 0.01        | 0.96          | 0.04         | 1.01        | 0.04           | 0.04          | 0.08        | 0.00         | 802.68          | 802.68          | 0.04        | 0.00        | 803.47          |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 25.47        | 0.00            | 25.47           | 1.51        | 0.00        | 57.07           |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 37.95           | 37.95           | 0.00        | 0.01        | 39.72           |
| <b>Total</b> | <b>1.24</b> | <b>1.37</b> | <b>6.93</b> | <b>0.01</b> | <b>0.96</b>   | <b>0.04</b>  | <b>1.03</b> | <b>0.04</b>    | <b>0.04</b>   | <b>0.10</b> | <b>25.47</b> | <b>1,255.22</b> | <b>1,280.69</b> | <b>1.56</b> | <b>0.02</b> | <b>1,317.42</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         | 0.54        | 0.01        | 0.77        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 1.23            | 1.23            | 0.00        | 0.00        | 1.25            |
| Energy       | 0.02        | 0.19        | 0.08        | 0.00        |               | 0.00         | 0.02        |                | 0.00          | 0.02        | 0.00         | 413.36          | 413.36          | 0.01        | 0.01        | 415.91          |
| Mobile       | 0.68        | 1.17        | 6.08        | 0.01        | 0.96          | 0.04         | 1.01        | 0.04           | 0.04          | 0.08        | 0.00         | 802.68          | 802.68          | 0.04        | 0.00        | 803.47          |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 25.47        | 0.00            | 25.47           | 1.51        | 0.00        | 57.07           |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 37.95           | 37.95           | 0.00        | 0.01        | 39.72           |
| <b>Total</b> | <b>1.24</b> | <b>1.37</b> | <b>6.93</b> | <b>0.01</b> | <b>0.96</b>   | <b>0.04</b>  | <b>1.03</b> | <b>0.04</b>    | <b>0.04</b>   | <b>0.10</b> | <b>25.47</b> | <b>1,255.22</b> | <b>1,280.69</b> | <b>1.56</b> | <b>0.02</b> | <b>1,317.42</b> |

### 3.0 Construction Detail

#### 3.1 Mitigation Measures Construction

#### 3.2 Demolition - 2012

##### 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 |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.06        | 0.42        | 0.28        | 0.00        |               | 0.03         | 0.03        |                | 0.03          | 0.03        | 0.00        | 39.28        | 39.28        | 0.01        | 0.00        | 39.39        |
| <b>Total</b>  | <b>0.06</b> | <b>0.42</b> | <b>0.28</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.03</b>  | <b>0.03</b> | <b>0.00</b>    | <b>0.03</b>   | <b>0.03</b> | <b>0.00</b> | <b>39.28</b> | <b>39.28</b> | <b>0.01</b> | <b>0.00</b> | <b>39.39</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.18        | 0.18        | 0.00        | 0.00        | 0.18        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 1.30        | 1.30        | 0.00        | 0.00        | 1.30        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.48</b> | <b>1.48</b> | <b>0.00</b> | <b>0.00</b> | <b>1.48</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 |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.06        | 0.42        | 0.28        | 0.00        |               | 0.03         | 0.03        |                | 0.03          | 0.03        | 0.00        | 39.28        | 39.28        | 0.01        | 0.00        | 39.39        |
| <b>Total</b>  | <b>0.06</b> | <b>0.42</b> | <b>0.28</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.03</b>  | <b>0.03</b> | <b>0.00</b>    | <b>0.03</b>   | <b>0.03</b> | <b>0.00</b> | <b>39.28</b> | <b>39.28</b> | <b>0.01</b> | <b>0.00</b> | <b>39.39</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.18        | 0.18        | 0.00        | 0.00        | 0.18        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 1.30        | 1.30        | 0.00        | 0.00        | 1.30        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.48</b> | <b>1.48</b> | <b>0.00</b> | <b>0.00</b> | <b>1.48</b> |

**3.3 Site Preparation - 2012**

**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 |             |             |             |             | 0.01          | 0.00         | 0.01        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.02        | 0.12        | 0.08        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 10.39        | 10.39        | 0.00        | 0.00        | 10.42        |
| <b>Total</b>  | <b>0.02</b> | <b>0.12</b> | <b>0.08</b> | <b>0.00</b> | <b>0.01</b>   | <b>0.01</b>  | <b>0.02</b> | <b>0.00</b>    | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>10.39</b> | <b>10.39</b> | <b>0.00</b> | <b>0.00</b> | <b>10.42</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.56        | 0.56        | 0.00        | 0.00        | 0.56        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.56</b> | <b>0.56</b> | <b>0.00</b> | <b>0.00</b> | <b>0.56</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 |             |             |             |             | 0.01          | 0.00         | 0.01        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.02        | 0.12        | 0.08        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 10.39        | 10.39        | 0.00        | 0.00        | 10.42        |
| <b>Total</b>  | <b>0.02</b> | <b>0.12</b> | <b>0.08</b> | <b>0.00</b> | <b>0.01</b>   | <b>0.01</b>  | <b>0.02</b> | <b>0.00</b>    | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>10.39</b> | <b>10.39</b> | <b>0.00</b> | <b>0.00</b> | <b>10.42</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.56        | 0.56        | 0.00        | 0.00        | 0.56        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.56</b> | <b>0.56</b> | <b>0.00</b> | <b>0.00</b> | <b>0.56</b> |

### 3.4 Grading - 2012

#### 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 |             |             |             |             | 0.02          | 0.00         | 0.02        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.11        | 0.78        | 0.52        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 74.98        | 74.98        | 0.01        | 0.00        | 75.17        |
| <b>Total</b>  | <b>0.11</b> | <b>0.78</b> | <b>0.52</b> | <b>0.00</b> | <b>0.02</b>   | <b>0.05</b>  | <b>0.07</b> | <b>0.00</b>    | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>74.98</b> | <b>74.98</b> | <b>0.01</b> | <b>0.00</b> | <b>75.17</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.02        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 2.59        | 2.59        | 0.00        | 0.00        | 2.60        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>2.59</b> | <b>2.59</b> | <b>0.00</b> | <b>0.00</b> | <b>2.60</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 |             |             |             |             | 0.02          | 0.00         | 0.02        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.11        | 0.78        | 0.52        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 74.98        | 74.98        | 0.01        | 0.00        | 75.17        |
| <b>Total</b>  | <b>0.11</b> | <b>0.78</b> | <b>0.52</b> | <b>0.00</b> | <b>0.02</b>   | <b>0.05</b>  | <b>0.07</b> | <b>0.00</b>    | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>74.98</b> | <b>74.98</b> | <b>0.01</b> | <b>0.00</b> | <b>75.17</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.02        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 2.59        | 2.59        | 0.00        | 0.00        | 2.60        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>2.59</b> | <b>2.59</b> | <b>0.00</b> | <b>0.00</b> | <b>2.60</b> |

**3.5 Building Construction - 2012**

**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     | 0.02        | 0.19        | 0.05        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 17.77        | 17.77        | 0.00        | 0.00        | 17.80        |
| <b>Total</b> | <b>0.02</b> | <b>0.19</b> | <b>0.05</b> | <b>0.00</b> |               | <b>0.01</b>  | <b>0.01</b> |                | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>17.77</b> | <b>17.77</b> | <b>0.00</b> | <b>0.00</b> | <b>17.80</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 2.35        | 2.35        | 0.00        | 0.00        | 2.36        |
| Worker       | 0.00        | 0.00        | 0.03        | 0.00        | 0.01          | 0.00         | 0.01        | 0.00           | 0.00          | 0.00        | 0.00        | 3.89        | 3.89        | 0.00        | 0.00        | 3.90        |
| <b>Total</b> | <b>0.00</b> | <b>0.02</b> | <b>0.04</b> | <b>0.00</b> | <b>0.01</b>   | <b>0.00</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>6.24</b> | <b>6.24</b> | <b>0.00</b> | <b>0.00</b> | <b>6.26</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     | 0.02        | 0.19        | 0.05        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 17.77        | 17.77        | 0.00        | 0.00        | 17.80        |
| <b>Total</b> | <b>0.02</b> | <b>0.19</b> | <b>0.05</b> | <b>0.00</b> |               | <b>0.01</b>  | <b>0.01</b> |                | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>17.77</b> | <b>17.77</b> | <b>0.00</b> | <b>0.00</b> | <b>17.80</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 2.35        | 2.35        | 0.00        | 0.00        | 2.36        |
| Worker       | 0.00        | 0.00        | 0.03        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 3.89        | 3.89        | 0.00        | 0.00        | 3.90        |
| <b>Total</b> | <b>0.00</b> | <b>0.02</b> | <b>0.04</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>6.24</b> | <b>6.24</b> | <b>0.00</b> | <b>0.00</b> | <b>6.26</b> |

**3.6 Paving - 2012**

**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     | 0.09        | 0.53        | 0.32        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 39.69        | 39.69        | 0.01        | 0.00        | 39.84        |
| Paving       | 0.00        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| <b>Total</b> | <b>0.09</b> | <b>0.53</b> | <b>0.32</b> | <b>0.00</b> |               | <b>0.05</b>  | <b>0.05</b> |                | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>39.69</b> | <b>39.69</b> | <b>0.01</b> | <b>0.00</b> | <b>39.84</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 1.95        | 1.95        | 0.00        | 0.00        | 1.95        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.95</b> | <b>1.95</b> | <b>0.00</b> | <b>0.00</b> | <b>1.95</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     | 0.09        | 0.53        | 0.32        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 39.69        | 39.69        | 0.01        | 0.00        | 39.84        |
| Paving       | 0.00        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| <b>Total</b> | <b>0.09</b> | <b>0.53</b> | <b>0.32</b> | <b>0.00</b> |               | <b>0.05</b>  | <b>0.05</b> |                | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>39.69</b> | <b>39.69</b> | <b>0.01</b> | <b>0.00</b> | <b>39.84</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 1.95        | 1.95        | 0.00        | 0.00        | 1.95        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.95</b> | <b>1.95</b> | <b>0.00</b> | <b>0.00</b> | <b>1.95</b> |

### 3.7 Architectural Coating - 2012

#### 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 | 0.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Off-Road        | 0.00        | 0.01        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.64        | 0.64        | 0.00        | 0.00        | 0.64        |
| <b>Total</b>    | <b>0.47</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.64</b> | <b>0.64</b> | <b>0.00</b> | <b>0.00</b> | <b>0.64</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.15</b> | <b>0.15</b> | <b>0.00</b> | <b>0.00</b> | <b>0.15</b> |

**Mitigated Construction On-Site**

|                 | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category        | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Archit. Coating | 0.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Off-Road        | 0.00        | 0.01        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.64        | 0.64        | 0.00        | 0.00        | 0.64        |
| <b>Total</b>    | <b>0.47</b> | <b>0.01</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.64</b> | <b>0.64</b> | <b>0.00</b> | <b>0.00</b> | <b>0.64</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      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.15</b> | <b>0.15</b> | <b>0.00</b> | <b>0.00</b> | <b>0.15</b> |

## 4.0 Mobile Detail

### 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   | 0.68    | 1.17 | 6.08 | 0.01 | 0.96          | 0.04         | 1.01       | 0.04           | 0.04          | 0.08        | 0.00     | 802.68    | 802.68    | 0.04 | 0.00 | 803.47 |
| Unmitigated | 0.68    | 1.17 | 6.08 | 0.01 | 0.96          | 0.04         | 1.01       | 0.04           | 0.04          | 0.08        | 0.00     | 802.68    | 802.68    | 0.04 | 0.00 | 803.47 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

### 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 642.00                  | 642.00   | 642.00 | 1,773,893   | 1,773,893  |
| Total                 | 642.00                  | 642.00   | 642.00 | 1,773,893   | 1,773,893  |

### 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             |
|-----------------------|------------|------------|-------------|------------|------------|-------------|
|                       | 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 |
| Single Family Housing | 10.80      | 7.30       | 7.50        | 32.90      | 18.00      | 49.10       |

## 5.0 Energy Detail

### 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   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 187.71    | 187.71    | 0.01      | 0.00      | 188.89    |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 187.71    | 187.71    | 0.01      | 0.00      | 188.89    |
| NaturalGas Mitigated    | 0.02      | 0.19      | 0.08      | 0.00      |               | 0.00         | 0.02       |                | 0.00          | 0.02        | 0.00      | 225.65    | 225.65    | 0.00      | 0.00      | 227.02    |
| NaturalGas Unmitigated  | 0.02      | 0.19      | 0.08      | 0.00      |               | 0.00         | 0.02       |                | 0.00          | 0.02        | 0.00      | 225.65    | 225.65    | 0.00      | 0.00      | 227.02    |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

### 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           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Single Family Housing | 4.22854e+006   | 0.02        | 0.19        | 0.08        | 0.00        |               | 0.00         | 0.02        |                | 0.00          | 0.02        | 0.00        | 225.65        | 225.65        | 0.00        | 0.00        | 227.02        |
| <b>Total</b>          |                | <b>0.02</b> | <b>0.19</b> | <b>0.08</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.02</b> |                | <b>0.00</b>   | <b>0.02</b> | <b>0.00</b> | <b>225.65</b> | <b>225.65</b> | <b>0.00</b> | <b>0.00</b> | <b>227.02</b> |

#### Mitigated

|                       | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|-----------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Land Use              | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Single Family Housing | 4.22854e+006   | 0.02        | 0.19        | 0.08        | 0.00        |               | 0.00         | 0.02        |                | 0.00          | 0.02        | 0.00        | 225.65        | 225.65        | 0.00        | 0.00        | 227.02        |
| <b>Total</b>          |                | <b>0.02</b> | <b>0.19</b> | <b>0.08</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.02</b> |                | <b>0.00</b>   | <b>0.02</b> | <b>0.00</b> | <b>225.65</b> | <b>225.65</b> | <b>0.00</b> | <b>0.00</b> | <b>227.02</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                       | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2     | CH4         | N2O         | CO2e          |
|-----------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use              | kWh             | tons/yr |     |    |     | MT/yr         |             |             |               |
| Single Family Housing | 645337          |         |     |    |     | 187.71        | 0.01        | 0.00        | 188.89        |
| <b>Total</b>          |                 |         |     |    |     | <b>187.71</b> | <b>0.01</b> | <b>0.00</b> | <b>188.89</b> |

#### Mitigated

|                       | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2     | CH4         | N2O         | CO2e          |
|-----------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use              | kWh             | tons/yr |     |    |     | MT/yr         |             |             |               |
| Single Family Housing | 645337          |         |     |    |     | 187.71        | 0.01        | 0.00        | 188.89        |
| <b>Total</b>          |                 |         |     |    |     | <b>187.71</b> | <b>0.01</b> | <b>0.00</b> | <b>188.89</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    | 0.54      | 0.01      | 0.77      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 1.23      | 1.23      | 0.00      | 0.00      | 1.25      |
| Unmitigated  | 0.54      | 0.01      | 0.77      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 1.23      | 1.23      | 0.00      | 0.00      | 1.25      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 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 | 0.05        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Hearth                | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 0.03        | 0.01        | 0.77        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 1.23        | 1.23        | 0.00        | 0.00        | 0.00        | 1.25        |
| <b>Total</b>          | <b>0.55</b> | <b>0.01</b> | <b>0.77</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.23</b> | <b>1.23</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>1.25</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 | 0.05        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Hearth                | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 0.03        | 0.01        | 0.77        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 1.23        | 1.23        | 0.00        | 0.00        | 0.00        | 1.25        |
| <b>Total</b>          | <b>0.55</b> | <b>0.01</b> | <b>0.77</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>1.23</b> | <b>1.23</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>1.25</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|              | ROG       | NOx       | CO        | SO2       | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           | M1/yr     |           |           |           |
| Mitigated    |           |           |           |           | 37.95     | 0.00      | 0.01      | 39.72     |
| Unmitigated  |           |           |           |           | 37.95     | 0.00      | 0.01      | 39.72     |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

### 7.2 Water by Land Use

#### Unmitigated

|                       | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2    | CH4         | N2O         | CO2e         |
|-----------------------|--------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use              | Mgal               | tons/yr |     |    |     | M1/yr        |             |             |              |
| Single Family Housing | 6.5154 / 4.10754   |         |     |    |     | 37.95        | 0.00        | 0.01        | 39.72        |
| <b>Total</b>          |                    |         |     |    |     | <b>37.95</b> | <b>0.00</b> | <b>0.01</b> | <b>39.72</b> |

#### Mitigated

|                       | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2    | CH4         | N2O         | CO2e         |
|-----------------------|--------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use              | Mgal               | tons/yr |     |    |     | M1/yr        |             |             |              |
| Single Family Housing | 6.5154 / 4.10754   |         |     |    |     | 37.95        | 0.00        | 0.01        | 39.72        |
| <b>Total</b>          |                    |         |     |    |     | <b>37.95</b> | <b>0.00</b> | <b>0.01</b> | <b>39.72</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

|              | ROG       | NOx       | CO        | SO2       | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | tons/yr   |           |           |           | MT/yr     |           |           |           |
| Mitigated    |           |           |           |           | 25.47     | 1.51      | 0.00      | 57.07     |
| Unmitigated  |           |           |           |           | 25.47     | 1.51      | 0.00      | 57.07     |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

### 8.2 Waste by Land Use

#### Unmitigated

|                       | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2    | CH4         | N2O         | CO2e         |
|-----------------------|----------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use              | tons           | tons/yr |     |    |     | MT/yr        |             |             |              |
| Single Family Housing | 125.46         |         |     |    |     | 25.47        | 1.51        | 0.00        | 57.07        |
| <b>Total</b>          |                |         |     |    |     | <b>25.47</b> | <b>1.51</b> | <b>0.00</b> | <b>57.07</b> |

#### Mitigated

|                       | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2    | CH4         | N2O         | CO2e         |
|-----------------------|----------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use              | tons           | tons/yr |     |    |     | MT/yr        |             |             |              |
| Single Family Housing | 125.46         |         |     |    |     | 25.47        | 1.51        | 0.00        | 57.07        |
| <b>Total</b>          |                |         |     |    |     | <b>25.47</b> | <b>1.51</b> | <b>0.00</b> | <b>57.07</b> |

## 9.0 Vegetation

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