1.0 Project Characteristics

1.1 Land Usage

<table>
<thead>
<tr>
<th>Land Uses</th>
<th>Size</th>
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<tbody>
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1.2 Other Project Characteristics

- Urbanization: Urban
- Wind Speed (m/s): 2.8
- Precipitation Freq (Days): 53
- Climate Zone: 5
- Operational Year: 2017
- Utility Company: Pacific Gas & Electric Company

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<td>N2O Intensity</td>
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1.3 User Entered Comments & Non-Default Data
Project Characteristics -

Land Use - per CalEEMod instructions, parking for non-residential uses is entered separately.

Construction Phase - No existing buildings; other default values doubled to account for 2 projects in one analysis

Trips and VMT - No existing buildings

On-road Fugitive Dust - No existing buildings

Grading - conservatively assuming separate construction projects, and cut from resi can't go to fill on hotel; acreages from disturbed areas under each plan

Vehicle Trips - weekday trip-generation rates are per traffic analysis, ITE Code 230, based on ITE equation. Weekend rates are CalEEMod defaults

Woodstoves - No fireplaces in residential development. All 50 units have NO fireplaces. However, hotel has 1 hearth. Given hotel use is not provided on this page, added 1 fireplace to residential development as a substitute.

Land Use Change -

Sequestration -

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## 2.1 Overall Construction

### Unmitigated Construction

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<th>Exhaust PM10</th>
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<th>Fugitive PM2.5</th>
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<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
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<th>CO2e</th>
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### Mitigated Construction

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<th>Bio- CO2</th>
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### Percent Reduction

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<th>SO2</th>
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<th>Exhaust PM10</th>
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<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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</table>
### 2.2 Overall Operational

**Unmitigated Operational**

| Category  | ROG | NOx   | CO    | SO2   | PM10 Fugitive | Exhaust PM10 | PM10 Total | PM2.5 Fugitive | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------|-----|-------|-------|-------|---------------|---------------|------------|---------------|---------------|-------------|-----------|---------|-----------|-----------|-----|-----|------|
| Area      | 1.4048 | 6.4000e-003 | 0.5718 | 2.0000e-005 | 0.0287        | 0.0287        | 0.0287     | 2.3738        | 0.6111        | 2.9849      | 6.2000e-004 | 2.1000e-004 | 3.0629 |
| Energy    | 0.0241 | 0.2154 | 0.1577 | 1.3100e-003 | 0.0166        | 0.0166        | 0.0166     | 0.0000        | 538.1547      | 538.1547    | 0.0181    | 7.1700e-003 | 540.7593 |
| Mobile    | 0.9707 | 2.2887 | 10.3550 | 0.0162 | 1.0428 | 0.0269        | 1.0698      | 0.2794        | 0.0248        | 0.3042      | 0.0000    | 1.256.3592 | 1,257.7405 |
| Waste     | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 18.0053 | 0.0000        | 18.0053     | 1.0641        | 0.0000        | 40.3510     | 0.0000    | 0.0000    | 40.3510 |
| Water     | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.9992 | 12.3552       | 14.3544     | 0.2059        | 4.9600e-003 | 20.2172     | 0.0123    | 1,862.1309 |
| Total     | 2.3995 | 2.5105 | 11.0845 | 0.0176 | 1.0428 | 0.0722        | 1.1151      | 0.2794        | 0.0780        | 0.3495      | 22.3783  | 1,807.4802 | 1,829.8585 | 1.3545 | 0.0123 | 1,862.1309 |
### 2.2 Overall Operational

#### Mitigated Operational

<table>
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<th>SO2</th>
<th>Fugitive PM10</th>
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<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
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<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
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<th>Exhaust PM2.5</th>
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<th>Bio-CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
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CalEEMod Version: CalEEMod.2013.2.2  
Date: 11/13/2015 11:53 AM  
Page 6 of 31
2.3 Vegetation

Vegetation

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3.0 Construction Detail

Construction Phase

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Acres of Grading (Site Preparation Phase): 6.35

Acres of Grading (Grading Phase): 6.35

Acres of Paving: 0
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### Trips and VMT

Residential Indoor: 224,269; Residential Outdoor: 74,756; Non-Residential Indoor: 130,227; Non-Residential Outdoor: 43,409 (Architectural Coating – sqft)
### 3.1 Mitigation Measures Construction

### 3.3 Site Preparation - 2016

#### Unmitigated Construction On-Site

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<th>Phase Name</th>
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### 3.3 Site Preparation - 2016

#### Unmitigated Construction Off-Site

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<th>Exhaust PM2.5</th>
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<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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#### Mitigated Construction On-Site

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### 3.3 Site Preparation - 2016
#### Mitigated Construction Off-Site

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### 3.4 Grading - 2016
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### 3.4 Grading - 2016

#### Unmitigated Construction Off-Site

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<th>CO (tons/yr)</th>
<th>NOx (MT/yr)</th>
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#### Mitigated Construction On-Site

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### 3.5 Building Construction - 2016

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### 3.5 Building Construction - 2016

#### Unmitigated Construction Off-Site

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## 3.5 Building Construction - 2016
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## 3.5 Building Construction - 2017
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### 3.5 Building Construction - 2017

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### 3.5 Building Construction - 2017

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### 3.6 Paving - 2017

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### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

| Category       | ROG (tons/yr) | NOx (tons/yr) | CO (tons/yr) | SO2 (tons/yr) | Fugitive PM10 (MT/yr) | Exhaust PM10 (MT/yr) | PM10 Total (MT/yr) | Fugitive PM2.5 (MT/yr) | Exhaust PM2.5 (MT/yr) | PM2.5 Total (MT/yr) | Bio- CO2 (MT/yr) | NBio- CO2 (MT/yr) | Total CO2 (MT/yr) | CH4 (MT/yr) | N2O (MT/yr) | CO2e (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       |
| 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       |
| Worker         | 1.220e-003    | 1.910e-003    | 0.0171       | 3.000e-005    | 2.390e-003           | 2.000e-005           | 2.410e-003         | 6.300e-004           | 2.000e-005           | 6.600e-004         | 0.0000            | 2.1539            | 2.1539           | 1.400e-004     | 0.0000       |
| Total          | 1.220e-003    | 1.910e-003    | 0.0171       | 3.000e-005    | 2.390e-003           | 2.000e-005           | 2.410e-003         | 6.300e-004           | 2.000e-005           | 6.600e-004         | 0.0000            | 2.1539            | 2.1539           | 1.400e-004     | 0.0000       |

#### Mitigated Construction On-Site

| Category | ROG (tons/yr) | NOx (tons/yr) | CO (tons/yr) | SO2 (tons/yr) | Fugitive PM10 (MT/yr) | Exhaust PM10 (MT/yr) | PM10 Total (MT/yr) | Fugitive PM2.5 (MT/yr) | Exhaust PM2.5 (MT/yr) | PM2.5 Total (MT/yr) | Bio- CO2 (MT/yr) | NBio- CO2 (MT/yr) | Total CO2 (MT/yr) | CH4 (MT/yr) | N2O (MT/yr) | CO2e (MT/yr) |
|----------|---------------|---------------|--------------|---------------|-----------------------|----------------------|--------------------|-----------------------|-----------------------|--------------------|-------------------|-------------------|-----------------|-------------|-------------|
| Off-Road | 0.0382        | 0.4059        | 0.2945       | 4.5000e-004   | 0.0228               | 0.0228               | 0.0210             | 0.0210               | 0.0000               | 41.3868            | 41.3868           | 0.0127            | 0.0000          | 41.6531        |
| Paving   | 2.520e-003    |               |              |               | 0.0000               | 0.0000               | 0.0000             | 0.0000               | 0.0000               | 0.0000             | 0.0000            | 0.0000            | 0.0000          | 0.0000         |
| Total    | 0.0407        | 0.4059        | 0.2945       | 4.5000e-004   | 0.0228               | 0.0228               | 0.0210             | 0.0210               | 0.0000               | 41.3868            | 41.3868           | 0.0127            | 0.0000          | 41.6531        |
### 3.6 Paving - 2017
#### Mitigated Construction Off-Site

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### 3.7 Architectural Coating - 2017
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3.7 Architectural Coating - 2017  

**Unmitigated Construction Off-Site**

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### 3.7 Architectural Coating - 2017

**Mitigated Construction Off-Site**

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<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Worker</td>
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<td>2.3000e-003</td>
<td>0.0205</td>
<td>4.0000e-005</td>
<td>2.8600e-003</td>
<td>3.0000e-005</td>
<td>2.8900e-003</td>
<td>7.6000e-004</td>
<td>3.0000e-005</td>
<td>7.9000e-004</td>
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<td>2.5847</td>
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<td>Total</td>
<td>1.4700e-003</td>
<td>2.3000e-003</td>
<td>0.0205</td>
<td>4.0000e-005</td>
<td>2.8600e-003</td>
<td>3.0000e-005</td>
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### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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<tr>
<th>Category</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigated</td>
<td>0.9707</td>
<td>2.2887</td>
<td>10.3550</td>
<td>0.0162</td>
<td>1.0428</td>
<td>0.0269</td>
<td>1.0698</td>
<td>0.2794</td>
<td>0.0248</td>
<td>0.3042</td>
<td>0.0000</td>
<td>1,256.3592</td>
<td>1,256.3592</td>
<td>0.0658</td>
<td>0.0000</td>
<td>1,257.7405</td>
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<tr>
<td>Unmitigated</td>
<td>0.9707</td>
<td>2.2887</td>
<td>10.3550</td>
<td>0.0162</td>
<td>1.0428</td>
<td>0.0269</td>
<td>1.0698</td>
<td>0.2794</td>
<td>0.0248</td>
<td>0.3042</td>
<td>0.0000</td>
<td>1,256.3592</td>
<td>1,256.3592</td>
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### 4.2 Trip Summary Information

<table>
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<th>Land Use</th>
<th>Average Daily Trip Rate</th>
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<th>Mitigated</th>
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<td></td>
<td>Weekday</td>
<td>Saturday</td>
<td>Sunday</td>
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<td>352.00</td>
<td>358.00</td>
<td>303.50</td>
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<td>982.80</td>
<td>714.00</td>
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<td>Parking Lot</td>
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### 4.3 Trip Type Information

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<th>Land Use</th>
<th>Miles</th>
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<th>Trip Purpose %</th>
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<tr>
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<td>H-W or C-W</td>
<td>H-S or C-C</td>
<td>H-O or C-NW</td>
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<td>Hotel</td>
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<td>Parking Lot</td>
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### 5.0 Energy Detail

#### 5.1 Mitigation Measures Energy

Historical Energy Use: N
5.2 Energy by Land Use - NaturalGas

Unmitigated
### 5.2 Energy by Land Use - Natural Gas

#### Mitigated

<table>
<thead>
<tr>
<th>Land Use</th>
<th>kBTU/yr</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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</thead>
<tbody>
<tr>
<td>Parking Lot</td>
<td>0</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
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<td>0.0000</td>
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<td>0.0000</td>
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<td>0.0000</td>
<td></td>
</tr>
<tr>
<td>Condo/Townhouse</td>
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<td>6.5500E-003</td>
<td>0.0560</td>
<td>0.0238</td>
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<td>0.1577</td>
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### 5.3 Energy by Land Use - Electricity

#### Unmitigated

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<tr>
<th>Land Use</th>
<th>kWh/yr</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condo/Townhouse</td>
<td>213135</td>
<td>62.0033</td>
<td>2.8000E-003</td>
<td>5.8000E-004</td>
<td>62.2420</td>
</tr>
<tr>
<td>Hotel</td>
<td>777704</td>
<td>226.243</td>
<td>0.0102</td>
<td>2.1200E-003</td>
<td>227.1140</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>39771.6</td>
<td>11.5700</td>
<td>5.2000E-004</td>
<td>1.1000E-004</td>
<td>11.6146</td>
</tr>
<tr>
<td>Total</td>
<td>399.8164</td>
<td>0.0136</td>
<td>2.8100E-003</td>
<td>300.9706</td>
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5.3 Energy by Land Use - Electricity

**Mitigated**

<table>
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<th>Land Use</th>
<th>Electricity Use kWh/yr</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condo/Townhouse</td>
<td>213135</td>
<td>62.0033</td>
<td>2.8000e-003</td>
<td>5.8000e-004</td>
<td>62.2420</td>
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</tr>
<tr>
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<td>0.0102</td>
<td>2.1200e-003</td>
<td>227.1140</td>
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</tr>
<tr>
<td>Parking Lot</td>
<td>39771.6</td>
<td>11.5700</td>
<td>5.2000e-004</td>
<td>1.1000e-004</td>
<td>11.6146</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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<td><strong>0.0136</strong></td>
<td><strong>2.8100e-003</strong></td>
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</table>

6.0 Area Detail

6.1 Mitigation Measures Area

<table>
<thead>
<tr>
<th>Category</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigated</td>
<td>1.4048</td>
<td>6.4000e-003</td>
<td>0.5718</td>
<td>2.0000e-005</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>2.3738</td>
<td>0.6111</td>
<td>2.9849</td>
<td>6.2000e-004</td>
<td>2.1000e-004</td>
<td>3.0629</td>
<td></td>
</tr>
<tr>
<td>Unmitigated</td>
<td>1.4048</td>
<td>6.4000e-003</td>
<td>0.5718</td>
<td>2.0000e-005</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>2.3738</td>
<td>0.6111</td>
<td>2.9849</td>
<td>6.2000e-004</td>
<td>2.1000e-004</td>
<td>3.0629</td>
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### 6.2 Area by SubCategory

#### Unmitigated

<table>
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<th>ROG (tons/yr)</th>
<th>NOx (MT/yr)</th>
<th>CO (MT/yr)</th>
<th>SO2 (MT/yr)</th>
<th>Fugitive PM10 (MT/yr)</th>
<th>Exhaust PM10 (MT/yr)</th>
<th>PM10 Total (MT/yr)</th>
<th>Fugitive PM2.5 (MT/yr)</th>
<th>Exhaust PM2.5 (MT/yr)</th>
<th>PM2.5 Total (MT/yr)</th>
<th>Bio- CO2 (MT/yr)</th>
<th>NBio- CO2 (MT/yr)</th>
<th>Total CO2 (MT/yr)</th>
<th>CH4 (MT/yr)</th>
<th>N2O (MT/yr)</th>
<th>CO2e (MT/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Coating</td>
<td>0.2739</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
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<td>0.0000</td>
<td>0.0000</td>
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</tr>
<tr>
<td>Consumer Products</td>
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</tr>
<tr>
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<tr>
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<td>0.0287</td>
<td>0.0287</td>
<td>0.0287</td>
<td>2.3738</td>
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### 6.2 Area by SubCategory

#### Mitigated

<table>
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<tr>
<th>SubCategory</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio-CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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</thead>
<tbody>
<tr>
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<td>0.0000</td>
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</tr>
<tr>
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<td>0.0266</td>
<td>0.0266</td>
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<td>2.3738</td>
<td>2.3738</td>
<td>2.3738</td>
</tr>
<tr>
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</tbody>
</table>

#### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

<table>
<thead>
<tr>
<th>Category</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigated</td>
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### 7.2 Water by Land Use

#### Unmitigated

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<tr>
<th>Land Use</th>
<th>Indoor/Outdoor Use</th>
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<th>CO2e</th>
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</thead>
<tbody>
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<tr>
<td>Parking Lot</td>
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<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14.3544</strong></td>
<td><strong>0.2059</strong></td>
<td><strong>4.9600e-003</strong></td>
<td><strong>20.2172</strong></td>
</tr>
</tbody>
</table>

#### Mitigated

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Indoor/Outdoor Use</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condo/Townhouse</td>
<td>3.2577 / 2.05377</td>
<td>8.2527</td>
<td>0.1065</td>
<td>2.5700e-003</td>
<td>11.2850</td>
</tr>
<tr>
<td>Hotel</td>
<td>3.04401 / 0.338224</td>
<td>6.1018</td>
<td>0.0994</td>
<td>2.3900e-003</td>
<td>8.9290</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>0 / 0</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14.3544</strong></td>
<td><strong>0.2059</strong></td>
<td><strong>4.9600e-003</strong></td>
<td><strong>20.2140</strong></td>
</tr>
</tbody>
</table>

### 8.0 Waste Detail
### 8.1 Mitigation Measures Waste

#### Category/Year

<table>
<thead>
<tr>
<th></th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MT/yr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mitigated</td>
<td>18.0053</td>
<td>1.0641</td>
<td>0.0000</td>
<td>40.3510</td>
</tr>
<tr>
<td>Unmitigated</td>
<td>18.0053</td>
<td>1.0641</td>
<td>0.0000</td>
<td>40.3510</td>
</tr>
</tbody>
</table>

### 8.2 Waste by Land Use

#### Unmitigated

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Waste Disposed</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condo/Townhouse</td>
<td>23</td>
<td>4.6688</td>
<td>0.2759</td>
<td>0.0000</td>
<td>10.4631</td>
</tr>
<tr>
<td>Hotel</td>
<td>65.7</td>
<td>13.3365</td>
<td>0.7882</td>
<td>0.0000</td>
<td>29.8880</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>0</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18.0053</strong></td>
<td><strong>1.0641</strong></td>
<td><strong>0.0000</strong></td>
<td><strong>40.3510</strong></td>
<td></td>
</tr>
</tbody>
</table>
8.2 Waste by Land Use

Mitigated

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Waste Disposed</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condo/Townhouse</td>
<td>23</td>
<td>4.6688</td>
<td>0.2759</td>
<td>0.0000</td>
<td>10.4631</td>
</tr>
<tr>
<td>Hotel</td>
<td>65.7</td>
<td>13.3365</td>
<td>0.7882</td>
<td>0.0000</td>
<td>29.8880</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>0</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18.0053</strong></td>
<td><strong>1.0641</strong></td>
<td><strong>0.0000</strong></td>
<td><strong>40.3510</strong></td>
<td></td>
</tr>
</tbody>
</table>

9.0 Operational Offroad

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Number</th>
<th>Hours/Day</th>
<th>Days/Year</th>
<th>Horse Power</th>
<th>Load Factor</th>
<th>Fuel Type</th>
</tr>
</thead>
</table>

10.0 Vegetation

<table>
<thead>
<tr>
<th>Category</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unmitigated</td>
<td>113.6130</td>
<td>0.0000</td>
<td>0.0000</td>
<td>113.6130</td>
</tr>
</tbody>
</table>
### 10.1 Vegetation Land Change

#### Vegetation Type

<table>
<thead>
<tr>
<th>Vegetation Type</th>
<th>Initial/Final</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grassland</td>
<td>8.7 / 1</td>
<td>-33.1870</td>
<td>0.0000</td>
<td>0.0000</td>
<td>-33.1870</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>-33.1870</td>
<td>0.0000</td>
<td>0.0000</td>
<td>-33.1870</td>
</tr>
</tbody>
</table>

### 10.2 Net New Trees

#### Species Class

<table>
<thead>
<tr>
<th>Species Class</th>
<th>Number of Trees</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed Hardwood</td>
<td>200</td>
<td>146.8000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>146.8000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>146.8000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>146.8000</td>
</tr>
<tr>
<td>Emissions Source</td>
<td>Pollutant</td>
<td>ROG</td>
<td>NO₂</td>
<td>CO</td>
<td>SO₂</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------</td>
<td>-----</td>
<td>-----</td>
<td>----</td>
<td>-----</td>
</tr>
<tr>
<td>Construction (pound/day)</td>
<td>Dust</td>
<td>25.396</td>
<td>59.924</td>
<td>52.851</td>
<td>0.077</td>
</tr>
<tr>
<td></td>
<td>Exhaust</td>
<td>58.924</td>
<td>52.851</td>
<td>0.077</td>
<td>3.512</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>84.320</td>
<td>112.775</td>
<td>0.154</td>
<td>7.024</td>
</tr>
<tr>
<td>Construction (tons/year)</td>
<td>Dust</td>
<td>3.8475</td>
<td>8.927</td>
<td>8.007</td>
<td>0.0117</td>
</tr>
<tr>
<td></td>
<td>Exhaust</td>
<td>8.927</td>
<td>8.007</td>
<td>0.0117</td>
<td>0.532</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>12.774</td>
<td>16.934</td>
<td>0.0234</td>
<td>1.064</td>
</tr>
<tr>
<td>lbs/year</td>
<td>7695</td>
<td>17854</td>
<td>16014</td>
<td>23.4</td>
<td>1064</td>
</tr>
<tr>
<td>lbs/day</td>
<td>25.396</td>
<td>59.924</td>
<td>52.851</td>
<td>0.077</td>
<td>3.512</td>
</tr>
</tbody>
</table>

Note: CO₂ is shown in CalEEMod in MT/year. Shown here is the converted value to US tons per year tons/MT

502.887 MT/year | 1.10231 | 554.3374 tons/year

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs/ton</td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>days/year</td>
<td>365</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Days:
- Saturdays: 52
- Sundays: 53
- Holidays: 9
- Construction days: 303
- Assume working Saturdays
## Emission Source Pollutants (tons/year)

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Reactive Organic Gases (ROG)</th>
<th>Nitrogen Oxides (NO&lt;sub&gt;x&lt;/sub&gt;)</th>
<th>Carbon Monoxide (CO)</th>
<th>Particulate Matter (&lt;10 microns [\text{PM}_{10}])</th>
<th>Sulfur Dioxide (SO&lt;sub&gt;x&lt;/sub&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>1.405</td>
<td>0.006</td>
<td>0.571</td>
<td>0.029</td>
<td>0.000</td>
</tr>
<tr>
<td>Energy</td>
<td>0.024</td>
<td>0.215</td>
<td>0.158</td>
<td>0.017</td>
<td>0.001</td>
</tr>
<tr>
<td>Mobile</td>
<td>0.971</td>
<td>2.289</td>
<td>10.356</td>
<td>1.07</td>
<td>0.016</td>
</tr>
<tr>
<td>Total</td>
<td>2.396</td>
<td>2.511</td>
<td>11.085</td>
<td>1.115</td>
<td>0.018</td>
</tr>
</tbody>
</table>

## Emission Source Pollutants (pounds/day)

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Reactive Organic Gases (ROG)</th>
<th>Nitrogen Oxides (NO&lt;sub&gt;x&lt;/sub&gt;)</th>
<th>Carbon Monoxide (CO)</th>
<th>Particulate Matter (&lt;10 microns [\text{PM}_{10}])</th>
<th>Sulfur Dioxide (SO&lt;sub&gt;x&lt;/sub&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>7.70</td>
<td>0.03</td>
<td>3.13</td>
<td>0.16</td>
<td>0.00</td>
</tr>
<tr>
<td>Energy</td>
<td>0.13</td>
<td>1.18</td>
<td>0.87</td>
<td>0.09</td>
<td>0.01</td>
</tr>
<tr>
<td>Mobile</td>
<td>5.32</td>
<td>12.54</td>
<td>56.75</td>
<td>5.66</td>
<td>0.09</td>
</tr>
<tr>
<td>Total</td>
<td>13.13</td>
<td>13.76</td>
<td>60.74</td>
<td>6.11</td>
<td>0.10</td>
</tr>
</tbody>
</table>

### MBUAPCD Thresholds

<table>
<thead>
<tr>
<th>MBUAPCD Threshold</th>
<th>137</th>
<th>137</th>
<th>550 (1)</th>
<th>82</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are Thresholds Exceeded?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes:
- Area source emissions include natural gas fuel combustion, landscape fuel combustion, consumer products, architectural coatings, and hearth fuel combustion (i.e., wood stoves, wood fireplaces, natural gas.
- (1) Applies to Area Source (Direct) emissions of Carbon Monoxide only.

<table>
<thead>
<tr>
<th></th>
<th>Operational</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂e from CallEEmod</td>
<td>1,905.86</td>
<td>1022.14 MT CO₂e total (all years of construction)</td>
</tr>
<tr>
<td>CO₂e from N₂O trans</td>
<td>6.20</td>
<td>20.4428 annualized over 50 years</td>
</tr>
<tr>
<td><strong>Total MT CO₂e</strong></td>
<td><strong>1,912.06</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>CalEEMod Category</td>
<td>% of fleet</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Autos LDA</td>
<td></td>
<td>46.40%</td>
</tr>
<tr>
<td>Light Trucks Class 1</td>
<td>LDT1</td>
<td>3.80%</td>
</tr>
<tr>
<td>Light Trucks Class 2</td>
<td>LDT2</td>
<td>21.00%</td>
</tr>
<tr>
<td>Medium Duty MDV</td>
<td>MDV</td>
<td>16.40%</td>
</tr>
<tr>
<td>Light Heavy Duty 1</td>
<td>LH01</td>
<td>5.10%</td>
</tr>
<tr>
<td>Light Heavy Duty 2</td>
<td>LH02</td>
<td>0.70%</td>
</tr>
<tr>
<td>Medium Heavy Duty MHD</td>
<td>MHD</td>
<td>1.60%</td>
</tr>
<tr>
<td>Heavy Heavy Duty HHD</td>
<td>HHD</td>
<td>2.90%</td>
</tr>
<tr>
<td>Other Bus OBUS</td>
<td></td>
<td>0.30%</td>
</tr>
<tr>
<td>Urban Bus LBUS</td>
<td></td>
<td>0.20%</td>
</tr>
<tr>
<td>Motorcycle MCY</td>
<td></td>
<td>0.80%</td>
</tr>
<tr>
<td>School Bus SBUS</td>
<td></td>
<td>0.10%</td>
</tr>
<tr>
<td>Motor Home MH</td>
<td></td>
<td>0.20%</td>
</tr>
</tbody>
</table>

Total grams N2O per vehicle type: 20,820
MT N2O from trans: 0.0208
MT CO2e from N2O from trans: 6.20