

**ATTACHMENT A**  
**EMISSION CALCULATIONS**

Bonsall 18+, UM - San Diego County, Summer

**Bonsall 18+, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 67.00 | Dwelling Unit | 21.75       | 120,600.00         | 192        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Bonsall 18+, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 9/27/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/2/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/2/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/30/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/31/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/3/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/3/2019  |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Bonsall 18+, UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 38.0248 | 22.0042 | 18.4686 | 0.0319 | 0.3494        | 1.2975       | 1.6469     | 0.0936         | 1.2199        | 1.3136      | 0.0000   | 3,104.7243 | 3,104.7243 | 0.7203 | 0.0000 | 3,121.1388 |
| Maximum | 38.0248 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 38.0248 | 22.0042 | 18.4686 | 0.0319 | 0.3494        | 1.2975       | 1.6469     | 0.0936         | 1.2199        | 1.3136      | 0.0000   | 3,104.7243 | 3,104.7243 | 0.7203 | 0.0000 | 3,121.1388 |
| Maximum | 38.0248 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

[illegible]

## Bonsall 18+, UM - San Diego County, Summer

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

|              | ROG             | NOx           | CO              | SO2             | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2               | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|--------------|-----------------|---------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------------|------------------------|------------------------|---------------|---------------|------------------------|
| Category     | lb/day          |               |                 |                 |               |                |                |                |                |                | lb/day                 |                        |                        |               |               |                        |
| Area         | 105.4887        | 2.0659        | 132.0734        | 0.2296          |               | 17.7770        | 17.7770        |                | 17.7770        | 17.7770        | 1,860.706<br>0         | 790.3060               | 2,651.011<br>9         | 1.7266        | 0.1464        | 2,737.791<br>7         |
| Energy       | 0.0735          | 0.6281        | 0.2673          | 4.0100e-<br>003 |               | 0.0508         | 0.0508         |                | 0.0508         | 0.0508         |                        | 801.7627               | 801.7627               | 0.0154        | 0.0147        | 806.5272               |
| Mobile       | 0.6585          | 3.3732        | 9.0263          | 0.0453          | 5.4760        | 0.0157         | 5.4918         | 1.4636         | 0.0147         | 1.4782         |                        | 4,668.470<br>1         | 4,668.470<br>1         | 0.2048        |               | 4,673.591<br>0         |
| <b>Total</b> | <b>106.2206</b> | <b>6.0672</b> | <b>141.3670</b> | <b>0.2790</b>   | <b>5.4760</b> | <b>17.8435</b> | <b>23.3195</b> | <b>1.4636</b>  | <b>17.8424</b> | <b>19.3060</b> | <b>1,860.706<br/>0</b> | <b>6,260.538<br/>8</b> | <b>8,121.244<br/>7</b> | <b>1.9468</b> | <b>0.1611</b> | <b>8,217.909<br/>8</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     | lb/day          |               |                 |                 |               |                |                |                |                |                | lb/day                 |                        |                        |               |               |                        |
| Area         | 105.4887        | 2.0659        | 132.0734        | 0.2296          |               | 17.7770        | 17.7770        |                | 17.7770        | 17.7770        | 1,860.706<br>0         | 790.3060               | 2,651.011<br>9         | 1.7266        | 0.1464        | 2,737.791<br>7         |
| Energy       | 0.0735          | 0.6281        | 0.2673          | 4.0100e-<br>003 |               | 0.0508         | 0.0508         |                | 0.0508         | 0.0508         |                        | 801.7627               | 801.7627               | 0.0154        | 0.0147        | 806.5272               |
| Mobile       | 0.6585          | 3.3732        | 9.0263          | 0.0453          | 5.4760        | 0.0157         | 5.4918         | 1.4636         | 0.0147         | 1.4782         |                        | 4,668.470<br>1         | 4,668.470<br>1         | 0.2048        |               | 4,673.591<br>0         |
| <b>Total</b> | <b>106.2206</b> | <b>6.0672</b> | <b>141.3670</b> | <b>0.2790</b>   | <b>5.4760</b> | <b>17.8435</b> | <b>23.3195</b> | <b>1.4636</b>  | <b>17.8424</b> | <b>19.3060</b> | <b>1,860.706<br/>0</b> | <b>6,260.538<br/>8</b> | <b>8,121.244<br/>7</b> | <b>1.9468</b> | <b>0.1611</b> | <b>8,217.909<br/>8</b> |

## Bonsall 18+, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 8/31/2019  | 9/27/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 3/3/2018   | 8/2/2019  | 5             | 370      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 3/2/2018  | 5             | 35       |                   |
| 4            | Paving                | Paving                | 8/3/2019   | 8/30/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Bonsall 18+, UM - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 5.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 24.00              | 7.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Bonsall 18+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0272        | 0.0203        | 0.2275        | 6.7000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 67.0223        | 67.0223        | 2.0800e-003        |     | 67.0744        |
| <b>Total</b> | <b>0.0272</b> | <b>0.0203</b> | <b>0.2275</b> | <b>6.7000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>67.0223</b> | <b>67.0223</b> | <b>2.0800e-003</b> |     | <b>67.0744</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0272        | 0.0203        | 0.2275        | 6.7000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 67.0223        | 67.0223        | 2.0800e-003        |     | 67.0744        |
| <b>Total</b> | <b>0.0272</b> | <b>0.0203</b> | <b>0.2275</b> | <b>6.7000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>67.0223</b> | <b>67.0223</b> | <b>2.0800e-003</b> |     | <b>67.0744</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0338        | 0.8780        | 0.2322        | 1.8000e-003        | 0.0429        | 6.5600e-003        | 0.0494        | 0.0123         | 6.2800e-003        | 0.0186        |          | 192.8158        | 192.8158        | 0.0158        |     | 193.2103        |
| Worker       | 0.1413        | 0.1092        | 1.2078        | 3.3300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 331.7082        | 331.7082        | 0.0110        |     | 331.9843        |
| <b>Total</b> | <b>0.1752</b> | <b>0.9871</b> | <b>1.4400</b> | <b>5.1300e-003</b> | <b>0.3494</b> | <b>8.6800e-003</b> | <b>0.3581</b> | <b>0.0936</b>  | <b>8.2400e-003</b> | <b>0.1019</b> |          | <b>524.5240</b> | <b>524.5240</b> | <b>0.0268</b> |     | <b>525.1945</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0338        | 0.8780        | 0.2322        | 1.8000e-003        | 0.0429        | 6.5600e-003        | 0.0494        | 0.0123         | 6.2800e-003        | 0.0186        |          | 192.8158        | 192.8158        | 0.0158        |     | 193.2103        |
| Worker       | 0.1413        | 0.1092        | 1.2078        | 3.3300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 331.7082        | 331.7082        | 0.0110        |     | 331.9843        |
| <b>Total</b> | <b>0.1752</b> | <b>0.9871</b> | <b>1.4400</b> | <b>5.1300e-003</b> | <b>0.3494</b> | <b>8.6800e-003</b> | <b>0.3581</b> | <b>0.0936</b>  | <b>8.2400e-003</b> | <b>0.1019</b> |          | <b>524.5240</b> | <b>524.5240</b> | <b>0.0268</b> |     | <b>525.1945</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0302        | 0.8278        | 0.2130        | 1.7900e-003        | 0.0429        | 5.4900e-003        | 0.0484        | 0.0123         | 5.2600e-003        | 0.0176        |          | 191.4373        | 191.4373        | 0.0152        |     | 191.8184        |
| Worker       | 0.1305        | 0.0976        | 1.0918        | 3.2300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 321.7068        | 321.7068        | 0.0100        |     | 321.9569        |
| <b>Total</b> | <b>0.1607</b> | <b>0.9254</b> | <b>1.3048</b> | <b>5.0200e-003</b> | <b>0.3494</b> | <b>7.5900e-003</b> | <b>0.3570</b> | <b>0.0936</b>  | <b>7.2000e-003</b> | <b>0.1008</b> |          | <b>513.1441</b> | <b>513.1441</b> | <b>0.0252</b> |     | <b>513.7753</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0302        | 0.8278        | 0.2130        | 1.7900e-003        | 0.0429        | 5.4900e-003        | 0.0484        | 0.0123         | 5.2600e-003        | 0.0176        |          | 191.4373        | 191.4373        | 0.0152        |     | 191.8184        |
| Worker       | 0.1305        | 0.0976        | 1.0918        | 3.2300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 321.7068        | 321.7068        | 0.0100        |     | 321.9569        |
| <b>Total</b> | <b>0.1607</b> | <b>0.9254</b> | <b>1.3048</b> | <b>5.0200e-003</b> | <b>0.3494</b> | <b>7.5900e-003</b> | <b>0.3570</b> | <b>0.0936</b>  | <b>7.2000e-003</b> | <b>0.1008</b> |          | <b>513.1441</b> | <b>513.1441</b> | <b>0.0252</b> |     | <b>513.7753</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Bonsall 18+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Bonsall 18+, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O | CO2e           |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|-----|----------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |                |                |        |     |                |
| Mitigated   | 0.6585 | 3.3732 | 9.0263 | 0.0453 | 5.4760        | 0.0157       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,668.470<br>1 | 4,668.470<br>1 | 0.2048 |     | 4,673.591<br>0 |
| Unmitigated | 0.6585 | 3.3732 | 9.0263 | 0.0453 | 5.4760        | 0.0157       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,668.470<br>1 | 4,668.470<br>1 | 0.2048 |     | 4,673.591<br>0 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |
| Total                 | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Bonsall 18+, UM - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |
| NaturalGas Unmitigated | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |

## Bonsall 18+, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6814.98        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6.81498        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Bonsall 18+, UM - San Diego County, Summer

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2 | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|-----------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |           |            |        |        |            |
| Mitigated   | 105.4887 | 2.0659 | 132.0734 | 0.2296 |               | 17.7770      | 17.7770    |                | 17.7770       | 17.7770     | 1,860.7060 | 790.3060  | 2,651.0119 | 1.7266 | 0.1464 | 2,737.7917 |
| Unmitigated | 105.4887 | 2.0659 | 132.0734 | 0.2296 |               | 17.7770      | 17.7770    |                | 17.7770       | 17.7770     | 1,860.7060 | 790.3060  | 2,651.0119 | 1.7266 | 0.1464 | 2,737.7917 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                 |                   |               |               |                   |
| Architectural Coating | 0.2068          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 102.5365        | 2.0024        | 126.5701        | 0.2293        |               | 17.7463        | 17.7463        |                | 17.7463        | 17.7463        | 1,860.7060        | 780.3529        | 2,641.0589        | 1.7171        | 0.1464        | 2,727.6018        |
| Landscaping           | 0.1646          | 0.0635        | 5.5033          | 2.9000e-004   |               | 0.0307         | 0.0307         |                | 0.0307         | 0.0307         |                   | 9.9530          | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>105.4887</b> | <b>2.0659</b> | <b>132.0734</b> | <b>0.2296</b> |               | <b>17.7770</b> | <b>17.7770</b> |                | <b>17.7770</b> | <b>17.7770</b> | <b>1,860.7060</b> | <b>790.3059</b> | <b>2,651.0119</b> | <b>1.7266</b> | <b>0.1464</b> | <b>2,737.7917</b> |

## Bonsall 18+, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                 |                   |               |               |                   |
| Architectural Coating | 0.2068          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 102.5365        | 2.0024        | 126.5701        | 0.2293        |               | 17.7463        | 17.7463        |                | 17.7463        | 17.7463        | 1,860.7060        | 780.3529        | 2,641.0589        | 1.7171        | 0.1464        | 2,727.6018        |
| Landscaping           | 0.1646          | 0.0635        | 5.5033          | 2.9000e-004   |               | 0.0307         | 0.0307         |                | 0.0307         | 0.0307         |                   | 9.9530          | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>105.4887</b> | <b>2.0659</b> | <b>132.0734</b> | <b>0.2296</b> |               | <b>17.7770</b> | <b>17.7770</b> |                | <b>17.7770</b> | <b>17.7770</b> | <b>1,860.7060</b> | <b>790.3059</b> | <b>2,651.0119</b> | <b>1.7266</b> | <b>0.1464</b> | <b>2,737.7917</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Bonsall 18+, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Bonsall 18+, M - San Diego County, Summer

**Bonsall 18+, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 67.00 | Dwelling Unit | 21.75       | 120,600.00         | 192        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Bonsall 18+, M - San Diego County, Summer

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 9/27/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/2/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 3/2/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/30/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/31/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 3/3/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/3/2019  |
| tblFireplaces             | NumberGas                       | 36.85      | 67.00     |
| tblFireplaces             | NumberNoFireplace               | 6.70       | 0.00      |
| tblFireplaces             | NumberWood                      | 23.45      | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 3.35       | 0.00      |

## Bonsall 18+, M - San Diego County, Summer

|               |                    |      |      |
|---------------|--------------------|------|------|
| tblWoodstoves | NumberNoncatalytic | 3.35 | 0.00 |
|---------------|--------------------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 38.0248 | 22.0042 | 18.4686 | 0.0319 | 0.3494        | 1.2975       | 1.6469     | 0.0936         | 1.2199        | 1.3136      | 0.0000   | 3,104.724<br>3 | 3,104.724<br>3 | 0.7203 | 0.0000 | 3,121.138<br>8 |
| Maximum | 38.0248 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 38.0248 | 22.0042 | 18.4686 | 0.0319 | 0.3494        | 1.2975       | 1.6469     | 0.0936         | 1.2199        | 1.3136      | 0.0000   | 3,104.724<br>3 | 3,104.724<br>3 | 0.7203 | 0.0000 | 3,121.138<br>8 |
| Maximum | 38.0248 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

Bonsall 18+, M - San Diego County, Summer

[illegible]

## Bonsall 18+, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 3.0822        | 1.1749        | 5.9762         | 7.3900e-003   |               | 0.1205        | 0.1205        |                | 0.1205        | 0.1205        | 0.0000        | 1,428.7765        | 1,428.7765        | 0.0367        | 0.0260        | 1,437.4447        |
| Energy       | 0.0735        | 0.6281        | 0.2673         | 4.0100e-003   |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |               | 801.7627          | 801.7627          | 0.0154        | 0.0147        | 806.5272          |
| Mobile       | 0.6585        | 3.3732        | 9.0263         | 0.0453        | 5.4760        | 0.0157        | 5.4918        | 1.4636         | 0.0147        | 1.4782        |               | 4,668.4701        | 4,668.4701        | 0.2048        |               | 4,673.5910        |
| <b>Total</b> | <b>3.8142</b> | <b>5.1762</b> | <b>15.2698</b> | <b>0.0567</b> | <b>5.4760</b> | <b>0.1870</b> | <b>5.6631</b> | <b>1.4636</b>  | <b>0.1860</b> | <b>1.6495</b> | <b>0.0000</b> | <b>6,899.0094</b> | <b>6,899.0094</b> | <b>0.2569</b> | <b>0.0407</b> | <b>6,917.5629</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     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 3.0822        | 1.1749        | 5.9762         | 7.3900e-003   |               | 0.1205        | 0.1205        |                | 0.1205        | 0.1205        | 0.0000        | 1,428.7765        | 1,428.7765        | 0.0367        | 0.0260        | 1,437.4447        |
| Energy       | 0.0735        | 0.6281        | 0.2673         | 4.0100e-003   |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |               | 801.7627          | 801.7627          | 0.0154        | 0.0147        | 806.5272          |
| Mobile       | 0.6585        | 3.3732        | 9.0263         | 0.0453        | 5.4760        | 0.0157        | 5.4918        | 1.4636         | 0.0147        | 1.4782        |               | 4,668.4701        | 4,668.4701        | 0.2048        |               | 4,673.5910        |
| <b>Total</b> | <b>3.8142</b> | <b>5.1762</b> | <b>15.2698</b> | <b>0.0567</b> | <b>5.4760</b> | <b>0.1870</b> | <b>5.6631</b> | <b>1.4636</b>  | <b>0.1860</b> | <b>1.6495</b> | <b>0.0000</b> | <b>6,899.0094</b> | <b>6,899.0094</b> | <b>0.2569</b> | <b>0.0407</b> | <b>6,917.5629</b> |

## Bonsall 18+, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 8/31/2019  | 9/27/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 3/3/2018   | 8/2/2019  | 5             | 370      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 3/2/2018  | 5             | 35       |                   |
| 4            | Paving                | Paving                | 8/3/2019   | 8/30/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Bonsall 18+, M - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 5.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 24.00              | 7.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Bonsall 18+, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0272        | 0.0203        | 0.2275        | 6.7000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 67.0223        | 67.0223        | 2.0800e-003        |     | 67.0744        |
| <b>Total</b> | <b>0.0272</b> | <b>0.0203</b> | <b>0.2275</b> | <b>6.7000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>67.0223</b> | <b>67.0223</b> | <b>2.0800e-003</b> |     | <b>67.0744</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0272        | 0.0203        | 0.2275        | 6.7000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 67.0223        | 67.0223        | 2.0800e-003        |     | 67.0744        |
| <b>Total</b> | <b>0.0272</b> | <b>0.0203</b> | <b>0.2275</b> | <b>6.7000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>67.0223</b> | <b>67.0223</b> | <b>2.0800e-003</b> |     | <b>67.0744</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0338        | 0.8780        | 0.2322        | 1.8000e-003        | 0.0429        | 6.5600e-003        | 0.0494        | 0.0123         | 6.2800e-003        | 0.0186        |          | 192.8158        | 192.8158        | 0.0158        |     | 193.2103        |
| Worker       | 0.1413        | 0.1092        | 1.2078        | 3.3300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 331.7082        | 331.7082        | 0.0110        |     | 331.9843        |
| <b>Total</b> | <b>0.1752</b> | <b>0.9871</b> | <b>1.4400</b> | <b>5.1300e-003</b> | <b>0.3494</b> | <b>8.6800e-003</b> | <b>0.3581</b> | <b>0.0936</b>  | <b>8.2400e-003</b> | <b>0.1019</b> |          | <b>524.5240</b> | <b>524.5240</b> | <b>0.0268</b> |     | <b>525.1945</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0338        | 0.8780        | 0.2322        | 1.8000e-003        | 0.0429        | 6.5600e-003        | 0.0494        | 0.0123         | 6.2800e-003        | 0.0186        |          | 192.8158        | 192.8158        | 0.0158        |     | 193.2103        |
| Worker       | 0.1413        | 0.1092        | 1.2078        | 3.3300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 331.7082        | 331.7082        | 0.0110        |     | 331.9843        |
| <b>Total</b> | <b>0.1752</b> | <b>0.9871</b> | <b>1.4400</b> | <b>5.1300e-003</b> | <b>0.3494</b> | <b>8.6800e-003</b> | <b>0.3581</b> | <b>0.0936</b>  | <b>8.2400e-003</b> | <b>0.1019</b> |          | <b>524.5240</b> | <b>524.5240</b> | <b>0.0268</b> |     | <b>525.1945</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0302        | 0.8278        | 0.2130        | 1.7900e-003        | 0.0429        | 5.4900e-003        | 0.0484        | 0.0123         | 5.2600e-003        | 0.0176        |          | 191.4373        | 191.4373        | 0.0152        |     | 191.8184        |
| Worker       | 0.1305        | 0.0976        | 1.0918        | 3.2300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 321.7068        | 321.7068        | 0.0100        |     | 321.9569        |
| <b>Total</b> | <b>0.1607</b> | <b>0.9254</b> | <b>1.3048</b> | <b>5.0200e-003</b> | <b>0.3494</b> | <b>7.5900e-003</b> | <b>0.3570</b> | <b>0.0936</b>  | <b>7.2000e-003</b> | <b>0.1008</b> |          | <b>513.1441</b> | <b>513.1441</b> | <b>0.0252</b> |     | <b>513.7753</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0302        | 0.8278        | 0.2130        | 1.7900e-003        | 0.0429        | 5.4900e-003        | 0.0484        | 0.0123         | 5.2600e-003        | 0.0176        |          | 191.4373        | 191.4373        | 0.0152        |     | 191.8184        |
| Worker       | 0.1305        | 0.0976        | 1.0918        | 3.2300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 321.7068        | 321.7068        | 0.0100        |     | 321.9569        |
| <b>Total</b> | <b>0.1607</b> | <b>0.9254</b> | <b>1.3048</b> | <b>5.0200e-003</b> | <b>0.3494</b> | <b>7.5900e-003</b> | <b>0.3570</b> | <b>0.0936</b>  | <b>7.2000e-003</b> | <b>0.1008</b> |          | <b>513.1441</b> | <b>513.1441</b> | <b>0.0252</b> |     | <b>513.7753</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Bonsall 18+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Bonsall 18+, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O | CO2e           |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|-----|----------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |                |                |        |     |                |
| Mitigated   | 0.6585 | 3.3732 | 9.0263 | 0.0453 | 5.4760        | 0.0157       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,668.470<br>1 | 4,668.470<br>1 | 0.2048 |     | 4,673.591<br>0 |
| Unmitigated | 0.6585 | 3.3732 | 9.0263 | 0.0453 | 5.4760        | 0.0157       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,668.470<br>1 | 4,668.470<br>1 | 0.2048 |     | 4,673.591<br>0 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |
| Total                 | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Bonsall 18+, M - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |
| NaturalGas Unmitigated | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |

## Bonsall 18+, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6814.98        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6.81498        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Bonsall 18+, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 3.0822 | 1.1749 | 5.9762 | 7.3900e-003 |               | 0.1205       | 0.1205     |                | 0.1205        | 0.1205      | 0.0000   | 1,428.7765 | 1,428.7765 | 0.0367 | 0.0260 | 1,437.4447 |
| Unmitigated | 3.0822 | 1.1749 | 5.9762 | 7.3900e-003 |               | 0.1205       | 0.1205     |                | 0.1205        | 0.1205      | 0.0000   | 1,428.7765 | 1,428.7765 | 0.0367 | 0.0260 | 1,437.4447 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.2068        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.1301        | 1.1114        | 0.4729        | 7.0900e-003        |               | 0.0899        | 0.0899        |                | 0.0899        | 0.0899        | 0.0000        | 1,418.8235        | 1,418.8235        | 0.0272        | 0.0260        | 1,427.2549        |
| Landscaping           | 0.1646        | 0.0635        | 5.5033        | 2.9000e-004        |               | 0.0307        | 0.0307        |                | 0.0307        | 0.0307        |               | 9.9530            | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>3.0823</b> | <b>1.1749</b> | <b>5.9762</b> | <b>7.3800e-003</b> |               | <b>0.1205</b> | <b>0.1205</b> |                | <b>0.1205</b> | <b>0.1205</b> | <b>0.0000</b> | <b>1,428.7765</b> | <b>1,428.7765</b> | <b>0.0367</b> | <b>0.0260</b> | <b>1,437.4447</b> |

## Bonsall 18+, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.2068        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.1301        | 1.1114        | 0.4729        | 7.0900e-003        |               | 0.0899        | 0.0899        |                | 0.0899        | 0.0899        | 0.0000        | 1,418.8235        | 1,418.8235        | 0.0272        | 0.0260        | 1,427.2549        |
| Landscaping           | 0.1646        | 0.0635        | 5.5033        | 2.9000e-004        |               | 0.0307        | 0.0307        |                | 0.0307        | 0.0307        |               | 9.9530            | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>3.0823</b> | <b>1.1749</b> | <b>5.9762</b> | <b>7.3800e-003</b> |               | <b>0.1205</b> | <b>0.1205</b> |                | <b>0.1205</b> | <b>0.1205</b> | <b>0.0000</b> | <b>1,428.7765</b> | <b>1,428.7765</b> | <b>0.0367</b> | <b>0.0260</b> | <b>1,437.4447</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Bonsall 18+, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Bonsall 18+, UM - San Diego County, Winter

**Bonsall 18+, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 67.00 | Dwelling Unit | 21.75       | 120,600.00         | 192        |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Bonsall 18+, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 9/27/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/2/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/2/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/30/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/31/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/3/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/3/2019  |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Bonsall 18+, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 38.0291 | 22.0154 | 18.4118 | 0.0317 | 0.3494        | 1.2976       | 1.6470     | 0.0936         | 1.2200        | 1.3137      | 0.0000   | 3,079.6346 | 3,079.6346 | 0.7200 | 0.0000 | 3,096.0595 |
| Maximum | 38.0291 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 38.0291 | 22.0154 | 18.4118 | 0.0317 | 0.3494        | 1.2976       | 1.6470     | 0.0936         | 1.2200        | 1.3137      | 0.0000   | 3,079.6346 | 3,079.6346 | 0.7200 | 0.0000 | 3,096.0595 |
| Maximum | 38.0291 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

[illegible]

## Bonsall 18+, UM - San Diego County, Winter

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

|              | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2               | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|--------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------------|------------------------|------------------------|---------------|---------------|------------------------|
| Category     | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day                 |                        |                        |               |               |                        |
| Area         | 105.4887        | 2.0659        | 132.0734        | 0.2296        |               | 17.7770        | 17.7770        |                | 17.7770        | 17.7770        | 1,860.706<br>0         | 790.3060               | 2,651.011<br>9         | 1.7266        | 0.1464        | 2,737.791<br>7         |
| Energy       | 0.0735          | 0.6281        | 0.2673          | 4.0100e-003   |               | 0.0508         | 0.0508         |                | 0.0508         | 0.0508         |                        | 801.7627               | 801.7627               | 0.0154        | 0.0147        | 806.5272               |
| Mobile       | 0.6451          | 3.4347        | 8.7125          | 0.0432        | 5.4760        | 0.0158         | 5.4918         | 1.4636         | 0.0147         | 1.4782         |                        | 4,449.559<br>3         | 4,449.559<br>3         | 0.2053        |               | 4,454.692<br>4         |
| <b>Total</b> | <b>106.2072</b> | <b>6.1287</b> | <b>141.0531</b> | <b>0.2768</b> | <b>5.4760</b> | <b>17.8435</b> | <b>23.3196</b> | <b>1.4636</b>  | <b>17.8425</b> | <b>19.3060</b> | <b>1,860.706<br/>0</b> | <b>6,041.627<br/>9</b> | <b>7,902.333<br/>9</b> | <b>1.9473</b> | <b>0.1611</b> | <b>7,999.011<br/>3</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     | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day                 |                        |                        |               |               |                        |
| Area         | 105.4887        | 2.0659        | 132.0734        | 0.2296        |               | 17.7770        | 17.7770        |                | 17.7770        | 17.7770        | 1,860.706<br>0         | 790.3060               | 2,651.011<br>9         | 1.7266        | 0.1464        | 2,737.791<br>7         |
| Energy       | 0.0735          | 0.6281        | 0.2673          | 4.0100e-003   |               | 0.0508         | 0.0508         |                | 0.0508         | 0.0508         |                        | 801.7627               | 801.7627               | 0.0154        | 0.0147        | 806.5272               |
| Mobile       | 0.6451          | 3.4347        | 8.7125          | 0.0432        | 5.4760        | 0.0158         | 5.4918         | 1.4636         | 0.0147         | 1.4782         |                        | 4,449.559<br>3         | 4,449.559<br>3         | 0.2053        |               | 4,454.692<br>4         |
| <b>Total</b> | <b>106.2072</b> | <b>6.1287</b> | <b>141.0531</b> | <b>0.2768</b> | <b>5.4760</b> | <b>17.8435</b> | <b>23.3196</b> | <b>1.4636</b>  | <b>17.8425</b> | <b>19.3060</b> | <b>1,860.706<br/>0</b> | <b>6,041.627<br/>9</b> | <b>7,902.333<br/>9</b> | <b>1.9473</b> | <b>0.1611</b> | <b>7,999.011<br/>3</b> |

## Bonsall 18+, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 8/31/2019  | 9/27/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 3/3/2018   | 8/2/2019  | 5             | 370      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 3/2/2018  | 5             | 35       |                   |
| 4            | Paving                | Paving                | 8/3/2019   | 8/30/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Bonsall 18+, UM - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 5.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 24.00              | 7.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Bonsall 18+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0315        | 0.0228        | 0.2105        | 6.3000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 62.8914        | 62.8914        | 1.9600e-003        |     | 62.9403        |
| <b>Total</b> | <b>0.0315</b> | <b>0.0228</b> | <b>0.2105</b> | <b>6.3000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>62.8914</b> | <b>62.8914</b> | <b>1.9600e-003</b> |     | <b>62.9403</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0315        | 0.0228        | 0.2105        | 6.3000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 62.8914        | 62.8914        | 1.9600e-003        |     | 62.9403        |
| <b>Total</b> | <b>0.0315</b> | <b>0.0228</b> | <b>0.2105</b> | <b>6.3000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>62.8914</b> | <b>62.8914</b> | <b>1.9600e-003</b> |     | <b>62.9403</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0353        | 0.8780        | 0.2583        | 1.7500e-003        | 0.0429        | 6.6800e-003        | 0.0495        | 0.0123         | 6.3900e-003        | 0.0187        |          | 187.5715        | 187.5715        | 0.0169        |     | 187.9926        |
| Worker       | 0.1633        | 0.1225        | 1.1225        | 3.1300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 311.2804        | 311.2804        | 0.0104        |     | 311.5403        |
| <b>Total</b> | <b>0.1986</b> | <b>1.0005</b> | <b>1.3808</b> | <b>4.8800e-003</b> | <b>0.3494</b> | <b>8.8000e-003</b> | <b>0.3582</b> | <b>0.0936</b>  | <b>8.3500e-003</b> | <b>0.1020</b> |          | <b>498.8518</b> | <b>498.8518</b> | <b>0.0273</b> |     | <b>499.5329</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0353        | 0.8780        | 0.2583        | 1.7500e-003        | 0.0429        | 6.6800e-003        | 0.0495        | 0.0123         | 6.3900e-003        | 0.0187        |          | 187.5715        | 187.5715        | 0.0169        |     | 187.9926        |
| Worker       | 0.1633        | 0.1225        | 1.1225        | 3.1300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 311.2804        | 311.2804        | 0.0104        |     | 311.5403        |
| <b>Total</b> | <b>0.1986</b> | <b>1.0005</b> | <b>1.3808</b> | <b>4.8800e-003</b> | <b>0.3494</b> | <b>8.8000e-003</b> | <b>0.3582</b> | <b>0.0936</b>  | <b>8.3500e-003</b> | <b>0.1020</b> |          | <b>498.8518</b> | <b>498.8518</b> | <b>0.0273</b> |     | <b>499.5329</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0316        | 0.8270        | 0.2375        | 1.7400e-003        | 0.0429        | 5.6000e-003        | 0.0485        | 0.0123         | 5.3600e-003        | 0.0177        |          | 186.1758        | 186.1758        | 0.0163        |     | 186.5825        |
| Worker       | 0.1510        | 0.1096        | 1.0105        | 3.0300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 301.8786        | 301.8786        | 9.4000e-003   |     | 302.1136        |
| <b>Total</b> | <b>0.1826</b> | <b>0.9366</b> | <b>1.2480</b> | <b>4.7700e-003</b> | <b>0.3494</b> | <b>7.7000e-003</b> | <b>0.3571</b> | <b>0.0936</b>  | <b>7.3000e-003</b> | <b>0.1009</b> |          | <b>488.0545</b> | <b>488.0545</b> | <b>0.0257</b> |     | <b>488.6960</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0316        | 0.8270        | 0.2375        | 1.7400e-003        | 0.0429        | 5.6000e-003        | 0.0485        | 0.0123         | 5.3600e-003        | 0.0177        |          | 186.1758        | 186.1758        | 0.0163        |     | 186.5825        |
| Worker       | 0.1510        | 0.1096        | 1.0105        | 3.0300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 301.8786        | 301.8786        | 9.4000e-003   |     | 302.1136        |
| <b>Total</b> | <b>0.1826</b> | <b>0.9366</b> | <b>1.2480</b> | <b>4.7700e-003</b> | <b>0.3494</b> | <b>7.7000e-003</b> | <b>0.3571</b> | <b>0.0936</b>  | <b>7.3000e-003</b> | <b>0.1009</b> |          | <b>488.0545</b> | <b>488.0545</b> | <b>0.0257</b> |     | <b>488.6960</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Bonsall 18+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Bonsall 18+, UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.6451 | 3.4347 | 8.7125 | 0.0432 | 5.4760        | 0.0158       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,449.5593 | 4,449.5593 | 0.2053 |     | 4,454.6924 |
| Unmitigated | 0.6451 | 3.4347 | 8.7125 | 0.0432 | 5.4760        | 0.0158       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,449.5593 | 4,449.5593 | 0.2053 |     | 4,454.6924 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |
| Total                 | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Bonsall 18+, UM - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |
| NaturalGas Unmitigated | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |

## Bonsall 18+, UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6814.98        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6.81498        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Bonsall 18+, UM - San Diego County, Winter

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2 | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|-----------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |           |            |        |        |            |
| Mitigated   | 105.4887 | 2.0659 | 132.0734 | 0.2296 |               | 17.7770      | 17.7770    |                | 17.7770       | 17.7770     | 1,860.7060 | 790.3060  | 2,651.0119 | 1.7266 | 0.1464 | 2,737.7917 |
| Unmitigated | 105.4887 | 2.0659 | 132.0734 | 0.2296 |               | 17.7770      | 17.7770    |                | 17.7770       | 17.7770     | 1,860.7060 | 790.3060  | 2,651.0119 | 1.7266 | 0.1464 | 2,737.7917 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                 |                   |               |               |                   |
| Architectural Coating | 0.2068          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 102.5365        | 2.0024        | 126.5701        | 0.2293        |               | 17.7463        | 17.7463        |                | 17.7463        | 17.7463        | 1,860.7060        | 780.3529        | 2,641.0589        | 1.7171        | 0.1464        | 2,727.6018        |
| Landscaping           | 0.1646          | 0.0635        | 5.5033          | 2.9000e-004   |               | 0.0307         | 0.0307         |                | 0.0307         | 0.0307         |                   | 9.9530          | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>105.4887</b> | <b>2.0659</b> | <b>132.0734</b> | <b>0.2296</b> |               | <b>17.7770</b> | <b>17.7770</b> |                | <b>17.7770</b> | <b>17.7770</b> | <b>1,860.7060</b> | <b>790.3059</b> | <b>2,651.0119</b> | <b>1.7266</b> | <b>0.1464</b> | <b>2,737.7917</b> |

Bonsall 18+, UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx           | CO              | SO2             | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2               | NBio- CO2       | Total CO2              | CH4             | N2O           | CO2e                   |
|-----------------------|-----------------|---------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------|------------------------|-----------------|---------------|------------------------|
| SubCategory           | lb/day          |               |                 |                 |               |                |                |                |                |                | lb/day                 |                 |                        |                 |               |                        |
| Architectural Coating | 0.2068          |               |                 |                 |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                        |                 | 0.0000                 |                 |               | 0.0000                 |
| Consumer Products     | 2.5808          |               |                 |                 |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                        |                 | 0.0000                 |                 |               | 0.0000                 |
| Hearth                | 102.5365        | 2.0024        | 126.5701        | 0.2293          |               | 17.7463        | 17.7463        |                | 17.7463        | 17.7463        | 1,860.706<br>0         | 780.3529        | 2,641.058<br>9         | 1.7171          | 0.1464        | 2,727.601<br>8         |
| Landscaping           | 0.1646          | 0.0635        | 5.5033          | 2.9000e-<br>004 |               | 0.0307         | 0.0307         |                | 0.0307         | 0.0307         |                        | 9.9530          | 9.9530                 | 9.4700e-<br>003 |               | 10.1899                |
| <b>Total</b>          | <b>105.4887</b> | <b>2.0659</b> | <b>132.0734</b> | <b>0.2296</b>   |               | <b>17.7770</b> | <b>17.7770</b> |                | <b>17.7770</b> | <b>17.7770</b> | <b>1,860.706<br/>0</b> | <b>790.3059</b> | <b>2,651.011<br/>9</b> | <b>1.7266</b>   | <b>0.1464</b> | <b>2,737.791<br/>7</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Bonsall 18+, UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Bonsall 18+, M - San Diego County, Winter

**Bonsall 18+, M**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 67.00 | Dwelling Unit | 21.75       | 120,600.00         | 192        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Bonsall 18+, M - San Diego County, Winter

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 9/27/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/2/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 3/2/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/30/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/31/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 3/3/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/3/2019  |
| tblFireplaces             | NumberGas                       | 36.85      | 67.00     |
| tblFireplaces             | NumberNoFireplace               | 6.70       | 0.00      |
| tblFireplaces             | NumberWood                      | 23.45      | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 3.35       | 0.00      |

## Bonsall 18+, M - San Diego County, Winter

|               |                    |      |      |
|---------------|--------------------|------|------|
| tblWoodstoves | NumberNoncatalytic | 3.35 | 0.00 |
|---------------|--------------------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 38.0291 | 22.0154 | 18.4118 | 0.0317 | 0.3494        | 1.2976       | 1.6470     | 0.0936         | 1.2200        | 1.3137      | 0.0000   | 3,079.634<br>6 | 3,079.634<br>6 | 0.7200 | 0.0000 | 3,096.059<br>5 |
| Maximum | 38.0291 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 38.0291 | 22.0154 | 18.4118 | 0.0317 | 0.3494        | 1.2976       | 1.6470     | 0.0936         | 1.2200        | 1.3137      | 0.0000   | 3,079.634<br>6 | 3,079.634<br>6 | 0.7200 | 0.0000 | 3,096.059<br>5 |
| Maximum | 38.0291 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

Bonsall 18+, M - San Diego County, Winter

[illegible]

## Bonsall 18+, M - San Diego County, Winter

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

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 3.0822        | 1.1749        | 5.9762         | 7.3900e-003   |               | 0.1205        | 0.1205        |                | 0.1205        | 0.1205        | 0.0000        | 1,428.7765        | 1,428.7765        | 0.0367        | 0.0260        | 1,437.4447        |
| Energy       | 0.0735        | 0.6281        | 0.2673         | 4.0100e-003   |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |               | 801.7627          | 801.7627          | 0.0154        | 0.0147        | 806.5272          |
| Mobile       | 0.6451        | 3.4347        | 8.7125         | 0.0432        | 5.4760        | 0.0158        | 5.4918        | 1.4636         | 0.0147        | 1.4782        |               | 4,449.5593        | 4,449.5593        | 0.2053        |               | 4,454.6924        |
| <b>Total</b> | <b>3.8008</b> | <b>5.2377</b> | <b>14.9559</b> | <b>0.0546</b> | <b>5.4760</b> | <b>0.1870</b> | <b>5.6631</b> | <b>1.4636</b>  | <b>0.1860</b> | <b>1.6495</b> | <b>0.0000</b> | <b>6,680.0985</b> | <b>6,680.0985</b> | <b>0.2574</b> | <b>0.0407</b> | <b>6,698.6644</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     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 3.0822        | 1.1749        | 5.9762         | 7.3900e-003   |               | 0.1205        | 0.1205        |                | 0.1205        | 0.1205        | 0.0000        | 1,428.7765        | 1,428.7765        | 0.0367        | 0.0260        | 1,437.4447        |
| Energy       | 0.0735        | 0.6281        | 0.2673         | 4.0100e-003   |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |               | 801.7627          | 801.7627          | 0.0154        | 0.0147        | 806.5272          |
| Mobile       | 0.6451        | 3.4347        | 8.7125         | 0.0432        | 5.4760        | 0.0158        | 5.4918        | 1.4636         | 0.0147        | 1.4782        |               | 4,449.5593        | 4,449.5593        | 0.2053        |               | 4,454.6924        |
| <b>Total</b> | <b>3.8008</b> | <b>5.2377</b> | <b>14.9559</b> | <b>0.0546</b> | <b>5.4760</b> | <b>0.1870</b> | <b>5.6631</b> | <b>1.4636</b>  | <b>0.1860</b> | <b>1.6495</b> | <b>0.0000</b> | <b>6,680.0985</b> | <b>6,680.0985</b> | <b>0.2574</b> | <b>0.0407</b> | <b>6,698.6644</b> |

## Bonsall 18+, M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 8/31/2019  | 9/27/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 3/3/2018   | 8/2/2019  | 5             | 370      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 3/2/2018  | 5             | 35       |                   |
| 4            | Paving                | Paving                | 8/3/2019   | 8/30/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Bonsall 18+, M - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 5.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 24.00              | 7.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Bonsall 18+, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0315        | 0.0228        | 0.2105        | 6.3000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 62.8914        | 62.8914        | 1.9600e-003        |     | 62.9403        |
| <b>Total</b> | <b>0.0315</b> | <b>0.0228</b> | <b>0.2105</b> | <b>6.3000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>62.8914</b> | <b>62.8914</b> | <b>1.9600e-003</b> |     | <b>62.9403</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 37.7312        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>37.9977</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0315        | 0.0228        | 0.2105        | 6.3000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.0000e-004        | 0.0173        |          | 62.8914        | 62.8914        | 1.9600e-003        |     | 62.9403        |
| <b>Total</b> | <b>0.0315</b> | <b>0.0228</b> | <b>0.2105</b> | <b>6.3000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.0000e-004</b> | <b>0.0173</b> |          | <b>62.8914</b> | <b>62.8914</b> | <b>1.9600e-003</b> |     | <b>62.9403</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0353        | 0.8780        | 0.2583        | 1.7500e-003        | 0.0429        | 6.6800e-003        | 0.0495        | 0.0123         | 6.3900e-003        | 0.0187        |          | 187.5715        | 187.5715        | 0.0169        |     | 187.9926        |
| Worker       | 0.1633        | 0.1225        | 1.1225        | 3.1300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 311.2804        | 311.2804        | 0.0104        |     | 311.5403        |
| <b>Total</b> | <b>0.1986</b> | <b>1.0005</b> | <b>1.3808</b> | <b>4.8800e-003</b> | <b>0.3494</b> | <b>8.8000e-003</b> | <b>0.3582</b> | <b>0.0936</b>  | <b>8.3500e-003</b> | <b>0.1020</b> |          | <b>498.8518</b> | <b>498.8518</b> | <b>0.0273</b> |     | <b>499.5329</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0353        | 0.8780        | 0.2583        | 1.7500e-003        | 0.0429        | 6.6800e-003        | 0.0495        | 0.0123         | 6.3900e-003        | 0.0187        |          | 187.5715        | 187.5715        | 0.0169        |     | 187.9926        |
| Worker       | 0.1633        | 0.1225        | 1.1225        | 3.1300e-003        | 0.3066        | 2.1200e-003        | 0.3087        | 0.0813         | 1.9600e-003        | 0.0833        |          | 311.2804        | 311.2804        | 0.0104        |     | 311.5403        |
| <b>Total</b> | <b>0.1986</b> | <b>1.0005</b> | <b>1.3808</b> | <b>4.8800e-003</b> | <b>0.3494</b> | <b>8.8000e-003</b> | <b>0.3582</b> | <b>0.0936</b>  | <b>8.3500e-003</b> | <b>0.1020</b> |          | <b>498.8518</b> | <b>498.8518</b> | <b>0.0273</b> |     | <b>499.5329</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0316        | 0.8270        | 0.2375        | 1.7400e-003        | 0.0429        | 5.6000e-003        | 0.0485        | 0.0123         | 5.3600e-003        | 0.0177        |          | 186.1758        | 186.1758        | 0.0163        |     | 186.5825        |
| Worker       | 0.1510        | 0.1096        | 1.0105        | 3.0300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 301.8786        | 301.8786        | 9.4000e-003   |     | 302.1136        |
| <b>Total</b> | <b>0.1826</b> | <b>0.9366</b> | <b>1.2480</b> | <b>4.7700e-003</b> | <b>0.3494</b> | <b>7.7000e-003</b> | <b>0.3571</b> | <b>0.0936</b>  | <b>7.3000e-003</b> | <b>0.1009</b> |          | <b>488.0545</b> | <b>488.0545</b> | <b>0.0257</b> |     | <b>488.6960</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0316        | 0.8270        | 0.2375        | 1.7400e-003        | 0.0429        | 5.6000e-003        | 0.0485        | 0.0123         | 5.3600e-003        | 0.0177        |          | 186.1758        | 186.1758        | 0.0163        |     | 186.5825        |
| Worker       | 0.1510        | 0.1096        | 1.0105        | 3.0300e-003        | 0.3066        | 2.1000e-003        | 0.3087        | 0.0813         | 1.9400e-003        | 0.0832        |          | 301.8786        | 301.8786        | 9.4000e-003   |     | 302.1136        |
| <b>Total</b> | <b>0.1826</b> | <b>0.9366</b> | <b>1.2480</b> | <b>4.7700e-003</b> | <b>0.3494</b> | <b>7.7000e-003</b> | <b>0.3571</b> | <b>0.0936</b>  | <b>7.3000e-003</b> | <b>0.1009</b> |          | <b>488.0545</b> | <b>488.0545</b> | <b>0.0257</b> |     | <b>488.6960</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Bonsall 18+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Bonsall 18+, M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.6451 | 3.4347 | 8.7125 | 0.0432 | 5.4760        | 0.0158       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,449.5593 | 4,449.5593 | 0.2053 |     | 4,454.6924 |
| Unmitigated | 0.6451 | 3.4347 | 8.7125 | 0.0432 | 5.4760        | 0.0158       | 5.4918     | 1.4636         | 0.0147        | 1.4782      |          | 4,449.5593 | 4,449.5593 | 0.2053 |     | 4,454.6924 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |
| Total                 | 670.00                  | 697.47   | 606.35 | 2,460,315   | 2,460,315  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

Bonsall 18+, M - San Diego County, Winter

## 5.0 Energy Detail

---

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |
| NaturalGas Unmitigated | 0.0735 | 0.6281 | 0.2673 | 4.0100e-003 |               | 0.0508       | 0.0508     |                | 0.0508        | 0.0508      |          | 801.7627  | 801.7627  | 0.0154 | 0.0147 | 806.5272 |

## Bonsall 18+, M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6814.98        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| Single Family Housing | 6.81498        | 0.0735        | 0.6281        | 0.2673        | 4.0100e-003        |               | 0.0508        | 0.0508        |                | 0.0508        | 0.0508        |          | 801.7627        | 801.7627        | 0.0154        | 0.0147        | 806.5272        |
| <b>Total</b>          |                | <b>0.0735</b> | <b>0.6281</b> | <b>0.2673</b> | <b>4.0100e-003</b> |               | <b>0.0508</b> | <b>0.0508</b> |                | <b>0.0508</b> | <b>0.0508</b> |          | <b>801.7627</b> | <b>801.7627</b> | <b>0.0154</b> | <b>0.0147</b> | <b>806.5272</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Bonsall 18+, M - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 3.0822 | 1.1749 | 5.9762 | 7.3900e-003 |               | 0.1205       | 0.1205     |                | 0.1205        | 0.1205      | 0.0000   | 1,428.7765 | 1,428.7765 | 0.0367 | 0.0260 | 1,437.4447 |
| Unmitigated | 3.0822 | 1.1749 | 5.9762 | 7.3900e-003 |               | 0.1205       | 0.1205     |                | 0.1205        | 0.1205      | 0.0000   | 1,428.7765 | 1,428.7765 | 0.0367 | 0.0260 | 1,437.4447 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.2068        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.1301        | 1.1114        | 0.4729        | 7.0900e-003        |               | 0.0899        | 0.0899        |                | 0.0899        | 0.0899        | 0.0000        | 1,418.8235        | 1,418.8235        | 0.0272        | 0.0260        | 1,427.2549        |
| Landscaping           | 0.1646        | 0.0635        | 5.5033        | 2.9000e-004        |               | 0.0307        | 0.0307        |                | 0.0307        | 0.0307        |               | 9.9530            | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>3.0823</b> | <b>1.1749</b> | <b>5.9762</b> | <b>7.3800e-003</b> |               | <b>0.1205</b> | <b>0.1205</b> |                | <b>0.1205</b> | <b>0.1205</b> | <b>0.0000</b> | <b>1,428.7765</b> | <b>1,428.7765</b> | <b>0.0367</b> | <b>0.0260</b> | <b>1,437.4447</b> |

## Bonsall 18+, M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.2068        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 2.5808        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.1301        | 1.1114        | 0.4729        | 7.0900e-003        |               | 0.0899        | 0.0899        |                | 0.0899        | 0.0899        | 0.0000        | 1,418.8235        | 1,418.8235        | 0.0272        | 0.0260        | 1,427.2549        |
| Landscaping           | 0.1646        | 0.0635        | 5.5033        | 2.9000e-004        |               | 0.0307        | 0.0307        |                | 0.0307        | 0.0307        |               | 9.9530            | 9.9530            | 9.4700e-003   |               | 10.1899           |
| <b>Total</b>          | <b>3.0823</b> | <b>1.1749</b> | <b>5.9762</b> | <b>7.3800e-003</b> |               | <b>0.1205</b> | <b>0.1205</b> |                | <b>0.1205</b> | <b>0.1205</b> | <b>0.0000</b> | <b>1,428.7765</b> | <b>1,428.7765</b> | <b>0.0367</b> | <b>0.0260</b> | <b>1,437.4447</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Bonsall 18+, M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Crest-Dehesa 14, UM - San Diego County, Summer

**Crest-Dehesa 14, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Crest-Dehesa 14, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/16/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

---

## Crest-Dehesa 14, UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.1911 | 2,540.1911 | 0.7709 | 0.0000 | 2,559.4638 |
| Maximum | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.1911 | 2,540.1911 | 0.7709 | 0.0000 | 2,559.4638 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.1911 | 2,540.1911 | 0.7709 | 0.0000 | 2,559.4638 |
| Maximum | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.1911 | 2,540.1911 | 0.7709 | 0.0000 | 2,559.4638 |

[illegible]

## Crest-Dehesa 14, UM - San Diego County, Summer

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0594         | 0.3170        | 0.7564         | 3.7100e-003   | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |                 | 382.7909        | 382.7909        | 0.0171        |               | 383.2191        |
| <b>Total</b> | <b>11.0883</b> | <b>0.5984</b> | <b>14.5831</b> | <b>0.0281</b> | <b>0.4414</b> | <b>1.8639</b> | <b>2.3053</b> | <b>0.1180</b>  | <b>1.8638</b> | <b>1.9818</b> | <b>194.4021</b> | <b>549.1264</b> | <b>743.5285</b> | <b>0.1991</b> | <b>0.0168</b> | <b>753.5211</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0594         | 0.3170        | 0.7564         | 3.7100e-003   | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |                 | 382.7909        | 382.7909        | 0.0171        |               | 383.2191        |
| <b>Total</b> | <b>11.0883</b> | <b>0.5984</b> | <b>14.5831</b> | <b>0.0281</b> | <b>0.4414</b> | <b>1.8639</b> | <b>2.3053</b> | <b>0.1180</b>  | <b>1.8638</b> | <b>1.9818</b> | <b>194.4021</b> | <b>549.1264</b> | <b>743.5285</b> | <b>0.1991</b> | <b>0.0168</b> | <b>753.5211</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Crest-Dehesa 14, UM - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.2600e-003        | 3.0700e-003        | 0.0342        | 9.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.9723        | 8.9723        | 3.1000e-004        |     | 8.9799        |
| <b>Total</b> | <b>4.2600e-003</b> | <b>3.0700e-003</b> | <b>0.0342</b> | <b>9.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.9723</b> | <b>8.9723</b> | <b>3.1000e-004</b> |     | <b>8.9799</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.2600e-003        | 3.0700e-003        | 0.0342        | 9.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.9723        | 8.9723        | 3.1000e-004        |     | 8.9799        |
| <b>Total</b> | <b>4.2600e-003</b> | <b>3.0700e-003</b> | <b>0.0342</b> | <b>9.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.9723</b> | <b>8.9723</b> | <b>3.1000e-004</b> |     | <b>8.9799</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.1600e-003   | 0.1318        | 0.0349        | 2.8000e-004        | 6.7700e-003   | 1.0300e-003        | 7.8000e-003   | 1.9500e-003        | 9.9000e-004        | 2.9300e-003        |          | 29.8190        | 29.8190        | 2.3600e-003        |     | 29.8781        |
| Worker       | 0.0128        | 9.2000e-003   | 0.1027        | 2.7000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 26.9167        | 26.9167        | 9.2000e-004        |     | 26.9398        |
| <b>Total</b> | <b>0.0179</b> | <b>0.1410</b> | <b>0.1376</b> | <b>5.5000e-004</b> | <b>0.0314</b> | <b>1.2100e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1500e-003</b> | <b>9.6300e-003</b> |          | <b>56.7357</b> | <b>56.7357</b> | <b>3.2800e-003</b> |     | <b>56.8178</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.1600e-003   | 0.1318        | 0.0349        | 2.8000e-004        | 6.7700e-003   | 1.0300e-003        | 7.8000e-003   | 1.9500e-003        | 9.9000e-004        | 2.9300e-003        |          | 29.8190        | 29.8190        | 2.3600e-003        |     | 29.8781        |
| Worker       | 0.0128        | 9.2000e-003   | 0.1027        | 2.7000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 26.9167        | 26.9167        | 9.2000e-004        |     | 26.9398        |
| <b>Total</b> | <b>0.0179</b> | <b>0.1410</b> | <b>0.1376</b> | <b>5.5000e-004</b> | <b>0.0314</b> | <b>1.2100e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1500e-003</b> | <b>9.6300e-003</b> |          | <b>56.7357</b> | <b>56.7357</b> | <b>3.2800e-003</b> |     | <b>56.8178</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0426        | 0.0307        | 0.3423        | 9.0000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 89.7225        | 89.7225        | 3.0700e-003        |     | 89.7992        |
| <b>Total</b> | <b>0.0426</b> | <b>0.0307</b> | <b>0.3423</b> | <b>9.0000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>89.7225</b> | <b>89.7225</b> | <b>3.0700e-003</b> |     | <b>89.7992</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0426        | 0.0307        | 0.3423        | 9.0000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 89.7225        | 89.7225        | 3.0700e-003        |     | 89.7992        |
| <b>Total</b> | <b>0.0426</b> | <b>0.0307</b> | <b>0.3423</b> | <b>9.0000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>89.7225</b> | <b>89.7225</b> | <b>3.0700e-003</b> |     | <b>89.7992</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0639        | 0.0460        | 0.5135        | 1.3500e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 134.5837        | 134.5837        | 4.6100e-003        |     | 134.6988        |
| <b>Total</b> | <b>0.0639</b> | <b>0.0460</b> | <b>0.5135</b> | <b>1.3500e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>134.5837</b> | <b>134.5837</b> | <b>4.6100e-003</b> |     | <b>134.6988</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0639        | 0.0460        | 0.5135        | 1.3500e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 134.5837        | 134.5837        | 4.6100e-003        |     | 134.6988        |
| <b>Total</b> | <b>0.0639</b> | <b>0.0460</b> | <b>0.5135</b> | <b>1.3500e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>134.5837</b> | <b>134.5837</b> | <b>4.6100e-003</b> |     | <b>134.6988</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0341        | 0.0245        | 0.2739        | 7.2000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 71.7780        | 71.7780        | 2.4600e-003        |     | 71.8394        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0245</b> | <b>0.2739</b> | <b>7.2000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>71.7780</b> | <b>71.7780</b> | <b>2.4600e-003</b> |     | <b>71.8394</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0341        | 0.0245        | 0.2739        | 7.2000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 71.7780        | 71.7780        | 2.4600e-003        |     | 71.8394        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0245</b> | <b>0.2739</b> | <b>7.2000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>71.7780</b> | <b>71.7780</b> | <b>2.4600e-003</b> |     | <b>71.8394</b> |

**4.0 Operational Detail - Mobile**

## Crest-Dehesa 14, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0594 | 0.3170 | 0.7564 | 3.7100e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 382.7909  | 382.7909  | 0.0171 |     | 383.2191 |
| Unmitigated | 0.0594 | 0.3170 | 0.7564 | 3.7100e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 382.7909  | 382.7909  | 0.0171 |     | 383.2191 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |
| Total                 | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Crest-Dehesa 14, UM - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Crest-Dehesa 14, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Crest-Dehesa 14, UM - San Diego County, Summer

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |
| Unmitigated | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

## Crest-Dehesa 14, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Crest-Dehesa 14, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Crest-Dehesa 14, M - San Diego County, Summer

**Crest-Dehesa 14, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Urban                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Crest-Dehesa 14, M - San Diego County, Summer

|                           |                                 |            |            |
|---------------------------|---------------------------------|------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/16/2018 |
| tblFireplaces             | NumberGas                       | 3.85       | 7.00       |
| tblFireplaces             | NumberNoFireplace               | 0.70       | 0.00       |
| tblFireplaces             | NumberWood                      | 2.45       | 0.00       |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050       |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00      |
| tblWoodstoves             | NumberCatalytic                 | 0.35       | 0.00       |
| tblWoodstoves             | NumberNoncatalytic              | 0.35       | 0.00       |

## Crest-Dehesa 14, M - San Diego County, Summer

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.191<br>1 | 2,540.191<br>1 | 0.7709 | 0.0000 | 2,559.463<br>8 |
| Maximum | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.191<br>1 | 2,540.191<br>1 | 0.7709 | 0.0000 | 2,559.463<br>8 |

**Mitigated Construction**

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.191<br>1 | 2,540.191<br>1 | 0.7709 | 0.0000 | 2,559.463<br>8 |
| Maximum | 8.1870 | 24.3201 | 15.8559 | 0.0256 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2062        | 4.4646      | 0.0000   | 2,540.191<br>1 | 2,540.191<br>1 | 0.7709 | 0.0000 | 2,559.463<br>8 |

Crest-Dehesa 14, M - San Diego County, Summer

[illegible]

## Crest-Dehesa 14, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0594        | 0.3170        | 0.7564        | 3.7100e-003        | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |               | 382.7909        | 382.7909        | 0.0171        |                    | 383.2191        |
| <b>Total</b> | <b>0.3891</b> | <b>0.5053</b> | <b>1.4087</b> | <b>4.9000e-003</b> | <b>0.4414</b> | <b>0.0192</b> | <b>0.4606</b> | <b>0.1180</b>  | <b>0.0191</b> | <b>0.1371</b> | <b>0.0000</b> | <b>615.8323</b> | <b>615.8323</b> | <b>0.0226</b> | <b>4.2600e-003</b> | <b>617.6639</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     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0594        | 0.3170        | 0.7564        | 3.7100e-003        | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |               | 382.7909        | 382.7909        | 0.0171        |                    | 383.2191        |
| <b>Total</b> | <b>0.3891</b> | <b>0.5053</b> | <b>1.4087</b> | <b>4.9000e-003</b> | <b>0.4414</b> | <b>0.0192</b> | <b>0.4606</b> | <b>0.1180</b>  | <b>0.0191</b> | <b>0.1371</b> | <b>0.0000</b> | <b>615.8323</b> | <b>615.8323</b> | <b>0.0226</b> | <b>4.2600e-003</b> | <b>617.6639</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Crest-Dehesa 14, M - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.2600e-003        | 3.0700e-003        | 0.0342        | 9.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.9723        | 8.9723        | 3.1000e-004        |     | 8.9799        |
| <b>Total</b> | <b>4.2600e-003</b> | <b>3.0700e-003</b> | <b>0.0342</b> | <b>9.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.9723</b> | <b>8.9723</b> | <b>3.1000e-004</b> |     | <b>8.9799</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.2600e-003        | 3.0700e-003        | 0.0342        | 9.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.9723        | 8.9723        | 3.1000e-004        |     | 8.9799        |
| <b>Total</b> | <b>4.2600e-003</b> | <b>3.0700e-003</b> | <b>0.0342</b> | <b>9.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.9723</b> | <b>8.9723</b> | <b>3.1000e-004</b> |     | <b>8.9799</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.1600e-003   | 0.1318        | 0.0349        | 2.8000e-004        | 6.7700e-003   | 1.0300e-003        | 7.8000e-003   | 1.9500e-003        | 9.9000e-004        | 2.9300e-003        |          | 29.8190        | 29.8190        | 2.3600e-003        |     | 29.8781        |
| Worker       | 0.0128        | 9.2000e-003   | 0.1027        | 2.7000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 26.9167        | 26.9167        | 9.2000e-004        |     | 26.9398        |
| <b>Total</b> | <b>0.0179</b> | <b>0.1410</b> | <b>0.1376</b> | <b>5.5000e-004</b> | <b>0.0314</b> | <b>1.2100e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1500e-003</b> | <b>9.6300e-003</b> |          | <b>56.7357</b> | <b>56.7357</b> | <b>3.2800e-003</b> |     | <b>56.8178</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.1600e-003   | 0.1318        | 0.0349        | 2.8000e-004        | 6.7700e-003   | 1.0300e-003        | 7.8000e-003   | 1.9500e-003        | 9.9000e-004        | 2.9300e-003        |          | 29.8190        | 29.8190        | 2.3600e-003        |     | 29.8781        |
| Worker       | 0.0128        | 9.2000e-003   | 0.1027        | 2.7000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 26.9167        | 26.9167        | 9.2000e-004        |     | 26.9398        |
| <b>Total</b> | <b>0.0179</b> | <b>0.1410</b> | <b>0.1376</b> | <b>5.5000e-004</b> | <b>0.0314</b> | <b>1.2100e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1500e-003</b> | <b>9.6300e-003</b> |          | <b>56.7357</b> | <b>56.7357</b> | <b>3.2800e-003</b> |     | <b>56.8178</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0426        | 0.0307        | 0.3423        | 9.0000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 89.7225        | 89.7225        | 3.0700e-003        |     | 89.7992        |
| <b>Total</b> | <b>0.0426</b> | <b>0.0307</b> | <b>0.3423</b> | <b>9.0000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>89.7225</b> | <b>89.7225</b> | <b>3.0700e-003</b> |     | <b>89.7992</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0426        | 0.0307        | 0.3423        | 9.0000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 89.7225        | 89.7225        | 3.0700e-003        |     | 89.7992        |
| <b>Total</b> | <b>0.0426</b> | <b>0.0307</b> | <b>0.3423</b> | <b>9.0000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>89.7225</b> | <b>89.7225</b> | <b>3.0700e-003</b> |     | <b>89.7992</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0639        | 0.0460        | 0.5135        | 1.3500e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 134.5837        | 134.5837        | 4.6100e-003        |     | 134.6988        |
| <b>Total</b> | <b>0.0639</b> | <b>0.0460</b> | <b>0.5135</b> | <b>1.3500e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>134.5837</b> | <b>134.5837</b> | <b>4.6100e-003</b> |     | <b>134.6988</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0639        | 0.0460        | 0.5135        | 1.3500e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 134.5837        | 134.5837        | 4.6100e-003        |     | 134.6988        |
| <b>Total</b> | <b>0.0639</b> | <b>0.0460</b> | <b>0.5135</b> | <b>1.3500e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>134.5837</b> | <b>134.5837</b> | <b>4.6100e-003</b> |     | <b>134.6988</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0341        | 0.0245        | 0.2739        | 7.2000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 71.7780        | 71.7780        | 2.4600e-003        |     | 71.8394        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0245</b> | <b>0.2739</b> | <b>7.2000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>71.7780</b> | <b>71.7780</b> | <b>2.4600e-003</b> |     | <b>71.8394</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0341        | 0.0245        | 0.2739        | 7.2000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 71.7780        | 71.7780        | 2.4600e-003        |     | 71.8394        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0245</b> | <b>0.2739</b> | <b>7.2000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>71.7780</b> | <b>71.7780</b> | <b>2.4600e-003</b> |     | <b>71.8394</b> |

**4.0 Operational Detail - Mobile**

## Crest-Dehesa 14, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0594 | 0.3170 | 0.7564 | 3.7100e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 382.7909  | 382.7909  | 0.0171 |     | 383.2191 |
| Unmitigated | 0.0594 | 0.3170 | 0.7564 | 3.7100e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 382.7909  | 382.7909  | 0.0171 |     | 383.2191 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |
| Total                 | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Crest-Dehesa 14, M - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Crest-Dehesa 14, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Crest-Dehesa 14, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Mitigated   | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |
| Unmitigated | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

## Crest-Dehesa 14, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Crest-Dehesa 14, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Crest-Dehesa 14, UM - San Diego County, Winter

**Crest-Dehesa 14, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Urban                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Crest-Dehesa 14, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/16/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

---

Crest-Dehesa 14, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.7993 | 2,535.7993 | 0.7708 | 0.0000 | 2,555.0690 |
| Maximum | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.7993 | 2,535.7993 | 0.7708 | 0.0000 | 2,555.0690 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.7993 | 2,535.7993 | 0.7708 | 0.0000 | 2,555.0690 |
| Maximum | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.7993 | 2,535.7993 | 0.7708 | 0.0000 | 2,555.0690 |

[illegible]

## Crest-Dehesa 14, UM - San Diego County, Winter

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0581         | 0.3211        | 0.7381         | 3.5300e-003   | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |                 | 364.4821        | 364.4821        | 0.0173        |               | 364.9135        |
| <b>Total</b> | <b>11.0870</b> | <b>0.6025</b> | <b>14.5647</b> | <b>0.0279</b> | <b>0.4414</b> | <b>1.8639</b> | <b>2.3053</b> | <b>0.1180</b>  | <b>1.8638</b> | <b>1.9818</b> | <b>194.4021</b> | <b>530.8177</b> | <b>725.2198</b> | <b>0.1993</b> | <b>0.0168</b> | <b>735.2155</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0581         | 0.3211        | 0.7381         | 3.5300e-003   | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |                 | 364.4821        | 364.4821        | 0.0173        |               | 364.9135        |
| <b>Total</b> | <b>11.0870</b> | <b>0.6025</b> | <b>14.5647</b> | <b>0.0279</b> | <b>0.4414</b> | <b>1.8639</b> | <b>2.3053</b> | <b>0.1180</b>  | <b>1.8638</b> | <b>1.9818</b> | <b>194.4021</b> | <b>530.8177</b> | <b>725.2198</b> | <b>0.1993</b> | <b>0.0168</b> | <b>735.2155</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Crest-Dehesa 14, UM - San Diego County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.8100e-003        | 3.4400e-003        | 0.0325        | 8.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.4233        | 8.4233        | 2.9000e-004        |     | 8.4306        |
| <b>Total</b> | <b>4.8100e-003</b> | <b>3.4400e-003</b> | <b>0.0325</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.4233</b> | <b>8.4233</b> | <b>2.9000e-004</b> |     | <b>8.4306</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.8100e-003        | 3.4400e-003        | 0.0325        | 8.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.4233        | 8.4233        | 2.9000e-004        |     | 8.4306        |
| <b>Total</b> | <b>4.8100e-003</b> | <b>3.4400e-003</b> | <b>0.0325</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.4233</b> | <b>8.4233</b> | <b>2.9000e-004</b> |     | <b>8.4306</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.3800e-003   | 0.1320        | 0.0386        | 2.7000e-004        | 6.7700e-003   | 1.0500e-003        | 7.8200e-003   | 1.9500e-003        | 1.0000e-003        | 2.9500e-003        |          | 29.0698        | 29.0698        | 2.5200e-003        |     | 29.1327        |
| Worker       | 0.0144        | 0.0103        | 0.0974        | 2.5000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 25.2698        | 25.2698        | 8.8000e-004        |     | 25.2917        |
| <b>Total</b> | <b>0.0198</b> | <b>0.1423</b> | <b>0.1360</b> | <b>5.2000e-004</b> | <b>0.0314</b> | <b>1.2300e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1600e-003</b> | <b>9.6500e-003</b> |          | <b>54.3396</b> | <b>54.3396</b> | <b>3.4000e-003</b> |     | <b>54.4244</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.3800e-003   | 0.1320        | 0.0386        | 2.7000e-004        | 6.7700e-003   | 1.0500e-003        | 7.8200e-003   | 1.9500e-003        | 1.0000e-003        | 2.9500e-003        |          | 29.0698        | 29.0698        | 2.5200e-003        |     | 29.1327        |
| Worker       | 0.0144        | 0.0103        | 0.0974        | 2.5000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 25.2698        | 25.2698        | 8.8000e-004        |     | 25.2917        |
| <b>Total</b> | <b>0.0198</b> | <b>0.1423</b> | <b>0.1360</b> | <b>5.2000e-004</b> | <b>0.0314</b> | <b>1.2300e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1600e-003</b> | <b>9.6500e-003</b> |          | <b>54.3396</b> | <b>54.3396</b> | <b>3.4000e-003</b> |     | <b>54.4244</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0481        | 0.0344        | 0.3247        | 8.5000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 84.2327        | 84.2327        | 2.9200e-003        |     | 84.3057        |
| <b>Total</b> | <b>0.0481</b> | <b>0.0344</b> | <b>0.3247</b> | <b>8.5000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>84.2327</b> | <b>84.2327</b> | <b>2.9200e-003</b> |     | <b>84.3057</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0481        | 0.0344        | 0.3247        | 8.5000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 84.2327        | 84.2327        | 2.9200e-003        |     | 84.3057        |
| <b>Total</b> | <b>0.0481</b> | <b>0.0344</b> | <b>0.3247</b> | <b>8.5000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>84.2327</b> | <b>84.2327</b> | <b>2.9200e-003</b> |     | <b>84.3057</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0721        | 0.0516        | 0.4871        | 1.2700e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 126.3491        | 126.3491        | 4.3800e-003        |     | 126.4586        |
| <b>Total</b> | <b>0.0721</b> | <b>0.0516</b> | <b>0.4871</b> | <b>1.2700e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>126.3491</b> | <b>126.3491</b> | <b>4.3800e-003</b> |     | <b>126.4586</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0721        | 0.0516        | 0.4871        | 1.2700e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 126.3491        | 126.3491        | 4.3800e-003        |     | 126.4586        |
| <b>Total</b> | <b>0.0721</b> | <b>0.0516</b> | <b>0.4871</b> | <b>1.2700e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>126.3491</b> | <b>126.3491</b> | <b>4.3800e-003</b> |     | <b>126.4586</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0385        | 0.0275        | 0.2598        | 6.8000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 67.3862        | 67.3862        | 2.3400e-003        |     | 67.4446        |
| <b>Total</b> | <b>0.0385</b> | <b>0.0275</b> | <b>0.2598</b> | <b>6.8000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>67.3862</b> | <b>67.3862</b> | <b>2.3400e-003</b> |     | <b>67.4446</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0385        | 0.0275        | 0.2598        | 6.8000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 67.3862        | 67.3862        | 2.3400e-003        |     | 67.4446        |
| <b>Total</b> | <b>0.0385</b> | <b>0.0275</b> | <b>0.2598</b> | <b>6.8000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>67.3862</b> | <b>67.3862</b> | <b>2.3400e-003</b> |     | <b>67.4446</b> |

**4.0 Operational Detail - Mobile**

## Crest-Dehesa 14, UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0581 | 0.3211 | 0.7381 | 3.5300e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 364.4821  | 364.4821  | 0.0173 |     | 364.9135 |
| Unmitigated | 0.0581 | 0.3211 | 0.7381 | 3.5300e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 364.4821  | 364.4821  | 0.0173 |     | 364.9135 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |
| Total                 | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Crest-Dehesa 14, UM - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Crest-Dehesa 14, UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Crest-Dehesa 14, UM - San Diego County, Winter

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |
| Unmitigated | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

## Crest-Dehesa 14, UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Crest-Dehesa 14, UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Crest-Dehesa 14, M - San Diego County, Winter

**Crest-Dehesa 14, M**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Crest-Dehesa 14, M - San Diego County, Winter

|                           |                                 |            |            |
|---------------------------|---------------------------------|------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/16/2018 |
| tblFireplaces             | NumberGas                       | 3.85       | 7.00       |
| tblFireplaces             | NumberNoFireplace               | 0.70       | 0.00       |
| tblFireplaces             | NumberWood                      | 2.45       | 0.00       |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050       |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00      |
| tblWoodstoves             | NumberCatalytic                 | 0.35       | 0.00       |
| tblWoodstoves             | NumberNoncatalytic              | 0.35       | 0.00       |

## Crest-Dehesa 14, M - San Diego County, Winter

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.799<br>3 | 2,535.799<br>3 | 0.7708 | 0.0000 | 2,555.069<br>0 |
| Maximum | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.799<br>3 | 2,535.799<br>3 | 0.7708 | 0.0000 | 2,555.069<br>0 |

**Mitigated Construction**

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.799<br>3 | 2,535.799<br>3 | 0.7708 | 0.0000 | 2,555.069<br>0 |
| Maximum | 8.1876 | 24.3239 | 15.8543 | 0.0255 | 6.6345        | 1.2587       | 7.8034     | 3.3893         | 1.2063        | 4.4646      | 0.0000   | 2,535.799<br>3 | 2,535.799<br>3 | 0.7708 | 0.0000 | 2,555.069<br>0 |

Crest-Dehesa 14, M - San Diego County, Winter

[illegible]

## Crest-Dehesa 14, M - San Diego County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0581        | 0.3211        | 0.7381        | 3.5300e-003        | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |               | 364.4821        | 364.4821        | 0.0173        |                    | 364.9135        |
| <b>Total</b> | <b>0.3878</b> | <b>0.5094</b> | <b>1.3904</b> | <b>4.7200e-003</b> | <b>0.4414</b> | <b>0.0192</b> | <b>0.4606</b> | <b>0.1180</b>  | <b>0.0191</b> | <b>0.1371</b> | <b>0.0000</b> | <b>597.5236</b> | <b>597.5236</b> | <b>0.0227</b> | <b>4.2600e-003</b> | <b>599.3584</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     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0581        | 0.3211        | 0.7381        | 3.5300e-003        | 0.4414        | 1.3000e-003   | 0.4427        | 0.1180         | 1.2100e-003   | 0.1192        |               | 364.4821        | 364.4821        | 0.0173        |                    | 364.9135        |
| <b>Total</b> | <b>0.3878</b> | <b>0.5094</b> | <b>1.3904</b> | <b>4.7200e-003</b> | <b>0.4414</b> | <b>0.0192</b> | <b>0.4606</b> | <b>0.1180</b>  | <b>0.0191</b> | <b>0.1371</b> | <b>0.0000</b> | <b>597.5236</b> | <b>597.5236</b> | <b>0.0227</b> | <b>4.2600e-003</b> | <b>599.3584</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Crest-Dehesa 14, M - San Diego County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.8100e-003        | 3.4400e-003        | 0.0325        | 8.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.4233        | 8.4233        | 2.9000e-004        |     | 8.4306        |
| <b>Total</b> | <b>4.8100e-003</b> | <b>3.4400e-003</b> | <b>0.0325</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.4233</b> | <b>8.4233</b> | <b>2.9000e-004</b> |     | <b>8.4306</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 4.8100e-003        | 3.4400e-003        | 0.0325        | 8.0000e-005        | 8.2100e-003        | 6.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.4233        | 8.4233        | 2.9000e-004        |     | 8.4306        |
| <b>Total</b> | <b>4.8100e-003</b> | <b>3.4400e-003</b> | <b>0.0325</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>6.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.4233</b> | <b>8.4233</b> | <b>2.9000e-004</b> |     | <b>8.4306</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.3800e-003   | 0.1320        | 0.0386        | 2.7000e-004        | 6.7700e-003   | 1.0500e-003        | 7.8200e-003   | 1.9500e-003        | 1.0000e-003        | 2.9500e-003        |          | 29.0698        | 29.0698        | 2.5200e-003        |     | 29.1327        |
| Worker       | 0.0144        | 0.0103        | 0.0974        | 2.5000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 25.2698        | 25.2698        | 8.8000e-004        |     | 25.2917        |
| <b>Total</b> | <b>0.0198</b> | <b>0.1423</b> | <b>0.1360</b> | <b>5.2000e-004</b> | <b>0.0314</b> | <b>1.2300e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1600e-003</b> | <b>9.6500e-003</b> |          | <b>54.3396</b> | <b>54.3396</b> | <b>3.4000e-003</b> |     | <b>54.4244</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.3800e-003   | 0.1320        | 0.0386        | 2.7000e-004        | 6.7700e-003   | 1.0500e-003        | 7.8200e-003   | 1.9500e-003        | 1.0000e-003        | 2.9500e-003        |          | 29.0698        | 29.0698        | 2.5200e-003        |     | 29.1327        |
| Worker       | 0.0144        | 0.0103        | 0.0974        | 2.5000e-004        | 0.0246        | 1.8000e-004        | 0.0248        | 6.5400e-003        | 1.6000e-004        | 6.7000e-003        |          | 25.2698        | 25.2698        | 8.8000e-004        |     | 25.2917        |
| <b>Total</b> | <b>0.0198</b> | <b>0.1423</b> | <b>0.1360</b> | <b>5.2000e-004</b> | <b>0.0314</b> | <b>1.2300e-003</b> | <b>0.0326</b> | <b>8.4900e-003</b> | <b>1.1600e-003</b> | <b>9.6500e-003</b> |          | <b>54.3396</b> | <b>54.3396</b> | <b>3.4000e-003</b> |     | <b>54.4244</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0481        | 0.0344        | 0.3247        | 8.5000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 84.2327        | 84.2327        | 2.9200e-003        |     | 84.3057        |
| <b>Total</b> | <b>0.0481</b> | <b>0.0344</b> | <b>0.3247</b> | <b>8.5000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>84.2327</b> | <b>84.2327</b> | <b>2.9200e-003</b> |     | <b>84.3057</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0481        | 0.0344        | 0.3247        | 8.5000e-004        | 0.0822        | 5.9000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 84.2327        | 84.2327        | 2.9200e-003        |     | 84.3057        |
| <b>Total</b> | <b>0.0481</b> | <b>0.0344</b> | <b>0.3247</b> | <b>8.5000e-004</b> | <b>0.0822</b> | <b>5.9000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>84.2327</b> | <b>84.2327</b> | <b>2.9200e-003</b> |     | <b>84.3057</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0721        | 0.0516        | 0.4871        | 1.2700e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 126.3491        | 126.3491        | 4.3800e-003        |     | 126.4586        |
| <b>Total</b> | <b>0.0721</b> | <b>0.0516</b> | <b>0.4871</b> | <b>1.2700e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>126.3491</b> | <b>126.3491</b> | <b>4.3800e-003</b> |     | <b>126.4586</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0721        | 0.0516        | 0.4871        | 1.2700e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 126.3491        | 126.3491        | 4.3800e-003        |     | 126.4586        |
| <b>Total</b> | <b>0.0721</b> | <b>0.0516</b> | <b>0.4871</b> | <b>1.2700e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>126.3491</b> | <b>126.3491</b> | <b>4.3800e-003</b> |     | <b>126.4586</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0385        | 0.0275        | 0.2598        | 6.8000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 67.3862        | 67.3862        | 2.3400e-003        |     | 67.4446        |
| <b>Total</b> | <b>0.0385</b> | <b>0.0275</b> | <b>0.2598</b> | <b>6.8000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>67.3862</b> | <b>67.3862</b> | <b>2.3400e-003</b> |     | <b>67.4446</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0385        | 0.0275        | 0.2598        | 6.8000e-004        | 0.0657        | 4.7000e-004        | 0.0662        | 0.0174         | 4.4000e-004        | 0.0179        |          | 67.3862        | 67.3862        | 2.3400e-003        |     | 67.4446        |
| <b>Total</b> | <b>0.0385</b> | <b>0.0275</b> | <b>0.2598</b> | <b>6.8000e-004</b> | <b>0.0657</b> | <b>4.7000e-004</b> | <b>0.0662</b> | <b>0.0174</b>  | <b>4.4000e-004</b> | <b>0.0179</b> |          | <b>67.3862</b> | <b>67.3862</b> | <b>2.3400e-003</b> |     | <b>67.4446</b> |

**4.0 Operational Detail - Mobile**

## Crest-Dehesa 14, M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0581 | 0.3211 | 0.7381 | 3.5300e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 364.4821  | 364.4821  | 0.0173 |     | 364.9135 |
| Unmitigated | 0.0581 | 0.3211 | 0.7381 | 3.5300e-003 | 0.4414        | 1.3000e-003  | 0.4427     | 0.1180         | 1.2100e-003   | 0.1192      |          | 364.4821  | 364.4821  | 0.0173 |     | 364.9135 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |
| Total                 | 70.00                   | 72.87    | 63.35  | 198,329     | 198,329    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.80      | 7.30       | 7.50        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Crest-Dehesa 14, M - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Crest-Dehesa 14, M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Crest-Dehesa 14, M - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Mitigated   | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |
| Unmitigated | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

## Crest-Dehesa 14, M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Crest-Dehesa 14, M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 8 - UM - San Diego County, Summer

## Desert Subregion 8 - UM

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 389.00 | Dwelling Unit | 126.30      | 700,200.00         | 1113       |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 8 - UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/18/2033 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 7/11/2031 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/23/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/14/2032 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/15/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/15/2032 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/24/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/16/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 7/12/2031 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Desert Subregion 8 - UM - San Diego County, Summer

## **2.1 Overall Construction (Maximum Daily Emission)**

### **Unmitigated Construction**

## Desert Subregion 8 - UM - San Diego County, Summer

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 4.8476  | 54.6015 | 34.2866 | 0.0647      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,408.108<br>5 | 6,408.108<br>5 | 1.9510 | 0.0000 | 6,456.882<br>8 |
| 2020    | 2.9795  | 24.2319 | 23.8346 | 0.0558      | 2.0454        | 1.1502       | 3.1956     | 0.5483         | 1.0816        | 1.6299      | 0.0000   | 5,511.639<br>0 | 5,511.639<br>0 | 0.7624 | 0.0000 | 5,530.699<br>0 |
| 2021    | 2.6933  | 22.0079 | 23.0836 | 0.0551      | 2.0454        | 0.9787       | 3.0241     | 0.5483         | 0.9201        | 1.4684      | 0.0000   | 5,440.416<br>1 | 5,440.416<br>1 | 0.7480 | 0.0000 | 5,459.116<br>0 |
| 2022    | 2.4546  | 19.9318 | 22.4361 | 0.0543      | 2.0454        | 0.8277       | 2.8731     | 0.5483         | 0.7786        | 1.3269      | 0.0000   | 5,366.302<br>1 | 5,366.302<br>1 | 0.7372 | 0.0000 | 5,384.732<br>0 |
| 2023    | 2.2628  | 17.8598 | 21.8748 | 0.0534      | 2.0454        | 0.7146       | 2.7600     | 0.5483         | 0.6722        | 1.2205      | 0.0000   | 5,273.910<br>1 | 5,273.910<br>1 | 0.7222 | 0.0000 | 5,291.965<br>2 |
| 2024    | 2.1292  | 16.8447 | 21.4632 | 0.0526      | 2.0454        | 0.6278       | 2.6732     | 0.5483         | 0.5904        | 1.1387      | 0.0000   | 5,203.080<br>2 | 5,203.080<br>2 | 0.7145 | 0.0000 | 5,220.941<br>6 |
| 2025    | 1.9970  | 15.8002 | 21.0730 | 0.0519      | 2.0454        | 0.5418       | 2.5872     | 0.5483         | 0.5095        | 1.0578      | 0.0000   | 5,133.779<br>7 | 5,133.779<br>7 | 0.7074 | 0.0000 | 5,151.463<br>6 |
| 2026    | 1.9726  | 15.7359 | 20.8159 | 0.0513      | 2.0454        | 0.5414       | 2.5868     | 0.5483         | 0.5091        | 1.0574      | 0.0000   | 5,072.457<br>8 | 5,072.457<br>8 | 0.7042 | 0.0000 | 5,090.063<br>4 |
| 2027    | 1.9485  | 15.6762 | 20.5884 | 0.0508      | 2.0454        | 0.5407       | 2.5861     | 0.5483         | 0.5085        | 1.0567      | 0.0000   | 5,018.279<br>0 | 5,018.279<br>0 | 0.7015 | 0.0000 | 5,035.816<br>5 |
| 2028    | 1.9233  | 15.6251 | 20.3941 | 0.0503      | 2.0454        | 0.5399       | 2.5853     | 0.5483         | 0.5077        | 1.0560      | 0.0000   | 4,970.978<br>8 | 4,970.978<br>8 | 0.6992 | 0.0000 | 4,988.457<br>6 |
| 2029    | 1.8960  | 15.5745 | 20.2088 | 0.0499      | 2.0454        | 0.5392       | 2.5845     | 0.5483         | 0.5070        | 1.0553      | 0.0000   | 4,928.930<br>9 | 4,928.930<br>9 | 0.6971 | 0.0000 | 4,946.358<br>3 |
| 2030    | 1.8083  | 10.9946 | 20.1080 | 0.0535      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1583        | 0.7066      | 0.0000   | 5,233.399<br>7 | 5,233.399<br>7 | 0.2105 | 0.0000 | 5,238.662<br>0 |
| 2031    | 1.7774  | 10.9548 | 19.9442 | 0.0532      | 2.0454        | 0.3314       | 2.2038     | 0.5483         | 0.3314        | 0.7060      | 0.0000   | 5,201.529<br>7 | 5,201.529<br>7 | 0.2088 | 0.0000 | 5,206.748<br>9 |
| 2032    | 20.1198 | 7.1427  | 16.1535 | 0.0294      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,788.361<br>1 | 2,788.361<br>1 | 0.1270 | 0.0000 | 2,791.536<br>5 |
| 2033    | 20.1151 | 0.8962  | 2.3413  | 5.3900e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 523.2837       | 523.2837       | 0.0158 | 0.0000 | 523.6795       |
| Maximum | 20.1198 | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

Desert Subregion 8 - UM - San Diego County, Summer

## **2.1 Overall Construction (Maximum Daily Emission)**

### **Mitigated Construction**

## Desert Subregion 8 - UM - San Diego County, Summer

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 4.8476  | 54.6015 | 34.2866 | 0.0647      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,408.108<br>5 | 6,408.108<br>5 | 1.9510 | 0.0000 | 6,456.882<br>8 |
| 2020    | 2.9795  | 24.2319 | 23.8346 | 0.0558      | 2.0454        | 1.1502       | 3.1956     | 0.5483         | 1.0816        | 1.6299      | 0.0000   | 5,511.639<br>0 | 5,511.639<br>0 | 0.7624 | 0.0000 | 5,530.699<br>0 |
| 2021    | 2.6933  | 22.0079 | 23.0836 | 0.0551      | 2.0454        | 0.9787       | 3.0241     | 0.5483         | 0.9201        | 1.4684      | 0.0000   | 5,440.416<br>1 | 5,440.416<br>1 | 0.7480 | 0.0000 | 5,459.116<br>0 |
| 2022    | 2.4546  | 19.9318 | 22.4361 | 0.0543      | 2.0454        | 0.8277       | 2.8731     | 0.5483         | 0.7786        | 1.3269      | 0.0000   | 5,366.302<br>1 | 5,366.302<br>1 | 0.7372 | 0.0000 | 5,384.732<br>0 |
| 2023    | 2.2628  | 17.8598 | 21.8748 | 0.0534      | 2.0454        | 0.7146       | 2.7600     | 0.5483         | 0.6722        | 1.2205      | 0.0000   | 5,273.910<br>1 | 5,273.910<br>1 | 0.7222 | 0.0000 | 5,291.965<br>2 |
| 2024    | 2.1292  | 16.8447 | 21.4632 | 0.0526      | 2.0454        | 0.6278       | 2.6732     | 0.5483         | 0.5904        | 1.1387      | 0.0000   | 5,203.080<br>2 | 5,203.080<br>2 | 0.7145 | 0.0000 | 5,220.941<br>6 |
| 2025    | 1.9970  | 15.8002 | 21.0730 | 0.0519      | 2.0454        | 0.5418       | 2.5872     | 0.5483         | 0.5095        | 1.0578      | 0.0000   | 5,133.779<br>7 | 5,133.779<br>7 | 0.7074 | 0.0000 | 5,151.463<br>6 |
| 2026    | 1.9726  | 15.7359 | 20.8159 | 0.0513      | 2.0454        | 0.5414       | 2.5868     | 0.5483         | 0.5091        | 1.0574      | 0.0000   | 5,072.457<br>8 | 5,072.457<br>8 | 0.7042 | 0.0000 | 5,090.063<br>4 |
| 2027    | 1.9485  | 15.6762 | 20.5884 | 0.0508      | 2.0454        | 0.5407       | 2.5861     | 0.5483         | 0.5085        | 1.0567      | 0.0000   | 5,018.279<br>0 | 5,018.279<br>0 | 0.7015 | 0.0000 | 5,035.816<br>5 |
| 2028    | 1.9233  | 15.6251 | 20.3941 | 0.0503      | 2.0454        | 0.5399       | 2.5853     | 0.5483         | 0.5077        | 1.0560      | 0.0000   | 4,970.978<br>8 | 4,970.978<br>8 | 0.6992 | 0.0000 | 4,988.457<br>6 |
| 2029    | 1.8960  | 15.5745 | 20.2088 | 0.0499      | 2.0454        | 0.5392       | 2.5845     | 0.5483         | 0.5070        | 1.0553      | 0.0000   | 4,928.930<br>9 | 4,928.930<br>9 | 0.6971 | 0.0000 | 4,946.358<br>3 |
| 2030    | 1.8083  | 10.9946 | 20.1080 | 0.0535      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1583        | 0.7066      | 0.0000   | 5,233.399<br>7 | 5,233.399<br>7 | 0.2105 | 0.0000 | 5,238.662<br>0 |
| 2031    | 1.7774  | 10.9548 | 19.9442 | 0.0532      | 2.0454        | 0.3314       | 2.2038     | 0.5483         | 0.3314        | 0.7060      | 0.0000   | 5,201.529<br>7 | 5,201.529<br>7 | 0.2088 | 0.0000 | 5,206.748<br>9 |
| 2032    | 20.1198 | 7.1427  | 16.1535 | 0.0294      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,788.361<br>1 | 2,788.361<br>1 | 0.1270 | 0.0000 | 2,791.536<br>5 |
| 2033    | 20.1151 | 0.8962  | 2.3413  | 5.3900e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 523.2837       | 523.2837       | 0.0158 | 0.0000 | 523.6795       |
| Maximum | 20.1198 | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

## Desert Subregion 8 - UM - San Diego County, Summer

[illegible]

## Desert Subregion 8 - UM - San Diego County, Summer

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

|              | ROG             | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|-----------------|----------------|-----------------|---------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | lb/day          |                |                 |               |                |                 |                 |                |                 |                 | lb/day             |                    |                    |                |               |                    |
| Area         | 612.4639        | 11.9948        | 766.8144        | 1.3331        |                | 103.2127        | 103.2127        |                | 103.2127        | 103.2127        | 10,803.2033        | 4,588.4927         | 15,391.6960        | 10.0246        | 0.8498        | 15,895.5367        |
| Energy       | 0.4267          | 3.6464         | 1.5517          | 0.0233        |                | 0.2948          | 0.2948          |                | 0.2948          | 0.2948          |                    | 4,655.0104         | 4,655.0104         | 0.0892         | 0.0853        | 4,682.6728         |
| Mobile       | 3.8229          | 19.5846        | 52.4066         | 0.2632        | 31.7937        | 0.0913          | 31.8850         | 8.4973         | 0.0851          | 8.5824          |                    | 27,104.9982        | 27,104.9982        | 1.1893         |               | 27,134.7296        |
| <b>Total</b> | <b>616.7136</b> | <b>35.2259</b> | <b>820.7727</b> | <b>1.6196</b> | <b>31.7937</b> | <b>103.5988</b> | <b>135.3925</b> | <b>8.4973</b>  | <b>103.5926</b> | <b>112.0899</b> | <b>10,803.2033</b> | <b>36,348.5013</b> | <b>47,151.7045</b> | <b>11.3031</b> | <b>0.9351</b> | <b>47,712.9391</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     | lb/day          |                |                 |               |                |                 |                 |                |                 |                 | lb/day             |                    |                    |                |               |                    |
| Area         | 612.4639        | 11.9948        | 766.8144        | 1.3331        |                | 103.2127        | 103.2127        |                | 103.2127        | 103.2127        | 10,803.2033        | 4,588.4927         | 15,391.6960        | 10.0246        | 0.8498        | 15,895.5367        |
| Energy       | 0.4267          | 3.6464         | 1.5517          | 0.0233        |                | 0.2948          | 0.2948          |                | 0.2948          | 0.2948          |                    | 4,655.0104         | 4,655.0104         | 0.0892         | 0.0853        | 4,682.6728         |
| Mobile       | 3.8229          | 19.5846        | 52.4066         | 0.2632        | 31.7937        | 0.0913          | 31.8850         | 8.4973         | 0.0851          | 8.5824          |                    | 27,104.9982        | 27,104.9982        | 1.1893         |               | 27,134.7296        |
| <b>Total</b> | <b>616.7136</b> | <b>35.2259</b> | <b>820.7727</b> | <b>1.6196</b> | <b>31.7937</b> | <b>103.5988</b> | <b>135.3925</b> | <b>8.4973</b>  | <b>103.5926</b> | <b>112.0899</b> | <b>10,803.2033</b> | <b>36,348.5013</b> | <b>47,151.7045</b> | <b>11.3031</b> | <b>0.9351</b> | <b>47,712.9391</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 6/15/2018 | 5             | 120      |                   |
| 2            | Architectural Coating | Architectural Coating | 5/15/2032  | 3/18/2033 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 6/16/2018  | 8/23/2019 | 5             | 310      |                   |
| 4            | Paving                | Paving                | 7/12/2031  | 5/14/2032 | 5             | 220      |                   |
| 5            | Building Construction | Building Construction | 8/24/2019  | 7/11/2031 | 5             | 3100     |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 1,417,905; Residential Outdoor: 472,635; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 8 - UM - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 28.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 140.00             | 42.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 8 - UM - San Diego County, Summer

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.6239        | 3,831.6239        | 1.1928        |     | 3,861.4448        |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.6239</b> | <b>3,831.6239</b> | <b>1.1928</b> |     | <b>3,861.4448</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.3 Architectural Coating - 2032****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0739        | 0.0420        | 0.5675        | 2.4700e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 246.1094        | 246.1094        | 4.6300e-003        |     | 246.2252        |
| <b>Total</b> | <b>0.0739</b> | <b>0.0420</b> | <b>0.5675</b> | <b>2.4700e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>246.1094</b> | <b>246.1094</b> | <b>4.6300e-003</b> |     | <b>246.2252</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.3 Architectural Coating - 2032****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0739        | 0.0420        | 0.5675        | 2.4700e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 246.1094        | 246.1094        | 4.6300e-003        |     | 246.2252        |
| <b>Total</b> | <b>0.0739</b> | <b>0.0420</b> | <b>0.5675</b> | <b>2.4700e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>246.1094</b> | <b>246.1094</b> | <b>4.6300e-003</b> |     | <b>246.2252</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.3 Architectural Coating - 2033****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0399        | 0.5436        | 2.4200e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 241.8357        | 241.8357        | 4.4400e-003        |     | 241.9467        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0399</b> | <b>0.5436</b> | <b>2.4200e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>241.8357</b> | <b>241.8357</b> | <b>4.4400e-003</b> |     | <b>241.9467</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.3 Architectural Coating - 2033****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0399        | 0.5436        | 2.4200e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 241.8357        | 241.8357        | 4.4400e-003        |     | 241.9467        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0399</b> | <b>0.5436</b> | <b>2.4200e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>241.8357</b> | <b>241.8357</b> | <b>4.4400e-003</b> |     | <b>241.9467</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.4 Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        |          | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> |          | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1087        | 0.0814        | 0.9099        | 2.6900e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 268.0890        | 268.0890        | 8.3400e-003        |     | 268.2974        |
| <b>Total</b> | <b>0.1087</b> | <b>0.0814</b> | <b>0.9099</b> | <b>2.6900e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>268.0890</b> | <b>268.0890</b> | <b>8.3400e-003</b> |     | <b>268.2974</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.4 Grading - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        | 0.0000        | 6,140.019<br>5         | 6,140.019<br>5         | 1.9426        |     | 6,188.585<br>4         |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> | <b>0.0000</b> | <b>6,140.019<br/>5</b> | <b>6,140.019<br/>5</b> | <b>1.9426</b> |     | <b>6,188.585<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1087        | 0.0814        | 0.9099        | 2.6900e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 268.0890        | 268.0890        | 8.3400e-003        |     | 268.2974        |
| <b>Total</b> | <b>0.1087</b> | <b>0.0814</b> | <b>0.9099</b> | <b>2.6900e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>268.0890</b> | <b>268.0890</b> | <b>8.3400e-003</b> |     | <b>268.2974</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.5 Paving - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0424        | 0.0238        | 0.3189        | 1.3500e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 134.5036        | 134.5036        | 2.6000e-003        |     | 134.5686        |
| <b>Total</b> | <b>0.0424</b> | <b>0.0238</b> | <b>0.3189</b> | <b>1.3500e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>134.5036</b> | <b>134.5036</b> | <b>2.6000e-003</b> |     | <b>134.5686</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.5 Paving - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0424        | 0.0238        | 0.3189        | 1.3500e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 134.5036        | 134.5036        | 2.6000e-003        |     | 134.5686        |
| <b>Total</b> | <b>0.0424</b> | <b>0.0238</b> | <b>0.3189</b> | <b>1.3500e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>134.5036</b> | <b>134.5036</b> | <b>2.6000e-003</b> |     | <b>134.5686</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.5 Paving - 2032****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0396        | 0.0225        | 0.3040        | 1.3200e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 131.8443        | 131.8443        | 2.4800e-003        |     | 131.9063        |
| <b>Total</b> | <b>0.0396</b> | <b>0.0225</b> | <b>0.3040</b> | <b>1.3200e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>131.8443</b> | <b>131.8443</b> | <b>2.4800e-003</b> |     | <b>131.9063</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.5 Paving - 2032****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0396        | 0.0225        | 0.3040        | 1.3200e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 131.8443        | 131.8443        | 2.4800e-003        |     | 131.9063        |
| <b>Total</b> | <b>0.0396</b> | <b>0.0225</b> | <b>0.3040</b> | <b>1.3200e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>131.8443</b> | <b>131.8443</b> | <b>2.4800e-003</b> |     | <b>131.9063</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1813        | 4.9665        | 1.2779        | 0.0107        | 0.2572        | 0.0330        | 0.2901        | 0.0740         | 0.0315        | 0.1056        |          | 1,148.623<br>8         | 1,148.623<br>8         | 0.0915        |     | 1,150.910<br>2         |
| Worker       | 0.7610        | 0.5696        | 6.3691        | 0.0188        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,876.623<br>1         | 1,876.623<br>1         | 0.0584        |     | 1,878.081<br>9         |
| <b>Total</b> | <b>0.9422</b> | <b>5.5360</b> | <b>7.6469</b> | <b>0.0295</b> | <b>2.0454</b> | <b>0.0452</b> | <b>2.0906</b> | <b>0.5483</b>  | <b>0.0428</b> | <b>0.5911</b> |          | <b>3,025.247<br/>0</b> | <b>3,025.247<br/>0</b> | <b>0.1498</b> |     | <b>3,028.992<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1813        | 4.9665        | 1.2779        | 0.0107        | 0.2572        | 0.0330        | 0.2901        | 0.0740         | 0.0315        | 0.1056        |          | 1,148.623<br>8         | 1,148.623<br>8         | 0.0915        |     | 1,150.910<br>2         |
| Worker       | 0.7610        | 0.5696        | 6.3691        | 0.0188        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,876.623<br>1         | 1,876.623<br>1         | 0.0584        |     | 1,878.081<br>9         |
| <b>Total</b> | <b>0.9422</b> | <b>5.5360</b> | <b>7.6469</b> | <b>0.0295</b> | <b>2.0454</b> | <b>0.0452</b> | <b>2.0906</b> | <b>0.5483</b>  | <b>0.0428</b> | <b>0.5911</b> |          | <b>3,025.247<br/>0</b> | <b>3,025.247<br/>0</b> | <b>0.1498</b> |     | <b>3,028.992<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1477        | 4.5315        | 1.1476        | 0.0106        | 0.2572        | 0.0211        | 0.2783        | 0.0740         | 0.0202        | 0.0942        |          | 1,141.212<br>1         | 1,141.212<br>1         | 0.0867        |     | 1,143.378<br>9         |
| Worker       | 0.7120        | 0.5143        | 5.8384        | 0.0182        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,817.363<br>9         | 1,817.363<br>9         | 0.0529        |     | 1,818.685<br>6         |
| <b>Total</b> | <b>0.8597</b> | <b>5.0458</b> | <b>6.9861</b> | <b>0.0289</b> | <b>2.0454</b> | <b>0.0332</b> | <b>2.0786</b> | <b>0.5483</b>  | <b>0.0313</b> | <b>0.5796</b> |          | <b>2,958.576<br/>0</b> | <b>2,958.576<br/>0</b> | <b>0.1395</b> |     | <b>2,962.064<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1477        | 4.5315        | 1.1476        | 0.0106        | 0.2572        | 0.0211        | 0.2783        | 0.0740         | 0.0202        | 0.0942        |          | 1,141.212<br>1         | 1,141.212<br>1         | 0.0867        |     | 1,143.378<br>9         |
| Worker       | 0.7120        | 0.5143        | 5.8384        | 0.0182        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,817.363<br>9         | 1,817.363<br>9         | 0.0529        |     | 1,818.685<br>6         |
| <b>Total</b> | <b>0.8597</b> | <b>5.0458</b> | <b>6.9861</b> | <b>0.0289</b> | <b>2.0454</b> | <b>0.0332</b> | <b>2.0786</b> | <b>0.5483</b>  | <b>0.0313</b> | <b>0.5796</b> |          | <b>2,958.576<br/>0</b> | <b>2,958.576<br/>0</b> | <b>0.1395</b> |     | <b>2,962.064<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1201        | 4.1078        | 1.0377        | 0.0105        | 0.2572        | 8.2200e-003   | 0.2654        | 0.0740         | 7.8600e-003   | 0.0819        |          | 1,130.7714        | 1,130.7714        | 0.0831        |     | 1,132.8490        |
| Worker       | 0.6723        | 0.4679        | 5.4707        | 0.0176        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,756.2808        | 1,756.2808        | 0.0489        |     | 1,757.5027        |
| <b>Total</b> | <b>0.7924</b> | <b>4.5758</b> | <b>6.5084</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0201</b> | <b>2.0655</b> | <b>0.5483</b>  | <b>0.0188</b> | <b>0.5671</b> |          | <b>2,887.0522</b> | <b>2,887.0522</b> | <b>0.1320</b> |     | <b>2,890.3517</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1201        | 4.1078        | 1.0377        | 0.0105        | 0.2572        | 8.2200e-003   | 0.2654        | 0.0740         | 7.8600e-003   | 0.0819        |          | 1,130.771<br>4         | 1,130.771<br>4         | 0.0831        |     | 1,132.849<br>0         |
| Worker       | 0.6723        | 0.4679        | 5.4707        | 0.0176        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,756.280<br>8         | 1,756.280<br>8         | 0.0489        |     | 1,757.502<br>7         |
| <b>Total</b> | <b>0.7924</b> | <b>4.5758</b> | <b>6.5084</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0201</b> | <b>2.0655</b> | <b>0.5483</b>  | <b>0.0188</b> | <b>0.5671</b> |          | <b>2,887.052<br/>2</b> | <b>2,887.052<br/>2</b> | <b>0.1320</b> |     | <b>2,890.351<br/>7</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2022****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        |          | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1116        | 3.8891        | 0.9816        | 0.0104        | 0.2572        | 7.0700e-003   | 0.2642        | 0.0740         | 6.7600e-003   | 0.0808        |          | 1,120.1742        | 1,120.1742        | 0.0804        |     | 1,122.1848        |
| Worker       | 0.6367        | 0.4271        | 5.0912        | 0.0170        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,691.7943        | 1,691.7943        | 0.0448        |     | 1,692.9149        |
| <b>Total</b> | <b>0.7483</b> | <b>4.3161</b> | <b>6.0727</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0187</b> | <b>2.0641</b> | <b>0.5483</b>  | <b>0.0175</b> | <b>0.5657</b> |          | <b>2,811.9685</b> | <b>2,811.9685</b> | <b>0.1253</b> |     | <b>2,815.0998</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2022****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1116        | 3.8891        | 0.9816        | 0.0104        | 0.2572        | 7.0700e-003   | 0.2642        | 0.0740         | 6.7600e-003   | 0.0808        |          | 1,120.1742        | 1,120.1742        | 0.0804        |     | 1,122.1848        |
| Worker       | 0.6367        | 0.4271        | 5.0912        | 0.0170        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,691.7943        | 1,691.7943        | 0.0448        |     | 1,692.9149        |
| <b>Total</b> | <b>0.7483</b> | <b>4.3161</b> | <b>6.0727</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0187</b> | <b>2.0641</b> | <b>0.5483</b>  | <b>0.0175</b> | <b>0.5657</b> |          | <b>2,811.9685</b> | <b>2,811.9685</b> | <b>0.1253</b> |     | <b>2,815.0998</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2023****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0862        | 3.0846        | 0.8985        | 0.0101        | 0.2572        | 3.4400e-003   | 0.2606        | 0.0740         | 3.2900e-003   | 0.0773        |          | 1,091.6257        | 1,091.6257        | 0.0733        |     | 1,093.4584        |
| Worker       | 0.6039        | 0.3903        | 4.7323        | 0.0163        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,627.0745        | 1,627.0745        | 0.0411        |     | 1,628.1007        |
| <b>Total</b> | <b>0.6901</b> | <b>3.4749</b> | <b>5.6308</b> | <b>0.0264</b> | <b>2.0454</b> | <b>0.0148</b> | <b>2.0602</b> | <b>0.5483</b>  | <b>0.0138</b> | <b>0.5620</b> |          | <b>2,718.7002</b> | <b>2,718.7002</b> | <b>0.1144</b> |     | <b>2,721.5591</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2023****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0862        | 3.0846        | 0.8985        | 0.0101        | 0.2572        | 3.4400e-003   | 0.2606        | 0.0740         | 3.2900e-003   | 0.0773        |          | 1,091.6257        | 1,091.6257        | 0.0733        |     | 1,093.4584        |
| Worker       | 0.6039        | 0.3903        | 4.7323        | 0.0163        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,627.0745        | 1,627.0745        | 0.0411        |     | 1,628.1007        |
| <b>Total</b> | <b>0.6901</b> | <b>3.4749</b> | <b>5.6308</b> | <b>0.0264</b> | <b>2.0454</b> | <b>0.0148</b> | <b>2.0602</b> | <b>0.5483</b>  | <b>0.0138</b> | <b>0.5620</b> |          | <b>2,718.7002</b> | <b>2,718.7002</b> | <b>0.1144</b> |     | <b>2,721.5591</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        |          | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> |          | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0831        | 3.0427        | 0.8692        | 0.0100        | 0.2572        | 3.3600e-003   | 0.2605        | 0.0740         | 3.2100e-003   | 0.0773        |          | 1,084.4526        | 1,084.4526        | 0.0724        |     | 1,086.2615        |
| Worker       | 0.5746        | 0.3583        | 4.4272        | 0.0157        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,562.9287        | 1,562.9287        | 0.0378        |     | 1,563.8725        |
| <b>Total</b> | <b>0.6577</b> | <b>3.4010</b> | <b>5.2964</b> | <b>0.0257</b> | <b>2.0454</b> | <b>0.0145</b> | <b>2.0599</b> | <b>0.5483</b>  | <b>0.0135</b> | <b>0.5618</b> |          | <b>2,647.3813</b> | <b>2,647.3813</b> | <b>0.1101</b> |     | <b>2,650.1340</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2024****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        | 0.0000        | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> | <b>0.0000</b> | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0831        | 3.0427        | 0.8692        | 0.0100        | 0.2572        | 3.3600e-003   | 0.2605        | 0.0740         | 3.2100e-003   | 0.0773        |          | 1,084.4526        | 1,084.4526        | 0.0724        |     | 1,086.2615        |
| Worker       | 0.5746        | 0.3583        | 4.4272        | 0.0157        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,562.9287        | 1,562.9287        | 0.0378        |     | 1,563.8725        |
| <b>Total</b> | <b>0.6577</b> | <b>3.4010</b> | <b>5.2964</b> | <b>0.0257</b> | <b>2.0454</b> | <b>0.0145</b> | <b>2.0599</b> | <b>0.5483</b>  | <b>0.0135</b> | <b>0.5618</b> |          | <b>2,647.3813</b> | <b>2,647.3813</b> | <b>0.1101</b> |     | <b>2,650.1340</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2025****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0806        | 2.9999        | 0.8513        | 9.9500e-003   | 0.2572        | 3.2600e-003   | 0.2604        | 0.0740         | 3.1100e-003   | 0.0772        |          | 1,077.644<br>5         | 1,077.644<br>5         | 0.0715        |     | 1,079.432<br>7         |
| Worker       | 0.5491        | 0.3306        | 4.1370        | 0.0150        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,499.660<br>8         | 1,499.660<br>8         | 0.0349        |     | 1,500.532<br>8         |
| <b>Total</b> | <b>0.6296</b> | <b>3.3305</b> | <b>4.9883</b> | <b>0.0250</b> | <b>2.0454</b> | <b>0.0143</b> | <b>2.0596</b> | <b>0.5483</b>  | <b>0.0132</b> | <b>0.5615</b> |          | <b>2,577.305<br/>3</b> | <b>2,577.305<br/>3</b> | <b>0.1064</b> |     | <b>2,579.965<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2025****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0806        | 2.9999        | 0.8513        | 9.9500e-003   | 0.2572        | 3.2600e-003   | 0.2604        | 0.0740         | 3.1100e-003   | 0.0772        |          | 1,077.644<br>5         | 1,077.644<br>5         | 0.0715        |     | 1,079.432<br>7         |
| Worker       | 0.5491        | 0.3306        | 4.1370        | 0.0150        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,499.660<br>8         | 1,499.660<br>8         | 0.0349        |     | 1,500.532<br>8         |
| <b>Total</b> | <b>0.6296</b> | <b>3.3305</b> | <b>4.9883</b> | <b>0.0250</b> | <b>2.0454</b> | <b>0.0143</b> | <b>2.0596</b> | <b>0.5483</b>  | <b>0.0132</b> | <b>0.5615</b> |          | <b>2,577.305<br/>3</b> | <b>2,577.305<br/>3</b> | <b>0.1064</b> |     | <b>2,579.965<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2026****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0785        | 2.9585        | 0.8389        | 9.8800e-003   | 0.2572        | 3.1700e-003   | 0.2603        | 0.0740         | 3.0200e-003   | 0.0771        |          | 1,071.266<br>5         | 1,071.266<br>5         | 0.0708        |     | 1,073.035<br>2         |
| Worker       | 0.5268        | 0.3078        | 3.8923        | 0.0145        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,444.716<br>9         | 1,444.716<br>9         | 0.0325        |     | 1,445.530<br>2         |
| <b>Total</b> | <b>0.6052</b> | <b>3.2663</b> | <b>4.7312</b> | <b>0.0244</b> | <b>2.0454</b> | <b>0.0138</b> | <b>2.0592</b> | <b>0.5483</b>  | <b>0.0128</b> | <b>0.5611</b> |          | <b>2,515.983<br/>4</b> | <b>2,515.983<br/>4</b> | <b>0.1033</b> |     | <b>2,518.565<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2026****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0785        | 2.9585        | 0.8389        | 9.8800e-003   | 0.2572        | 3.1700e-003   | 0.2603        | 0.0740         | 3.0200e-003   | 0.0771        |          | 1,071.266<br>5         | 1,071.266<br>5         | 0.0708        |     | 1,073.035<br>2         |
| Worker       | 0.5268        | 0.3078        | 3.8923        | 0.0145        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,444.716<br>9         | 1,444.716<br>9         | 0.0325        |     | 1,445.530<br>2         |
| <b>Total</b> | <b>0.6052</b> | <b>3.2663</b> | <b>4.7312</b> | <b>0.0244</b> | <b>2.0454</b> | <b>0.0138</b> | <b>2.0592</b> | <b>0.5483</b>  | <b>0.0128</b> | <b>0.5611</b> |          | <b>2,515.983<br/>4</b> | <b>2,515.983<br/>4</b> | <b>0.1033</b> |     | <b>2,518.565<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2027****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0767        | 2.9190        | 0.8284        | 9.8100e-003   | 0.2572        | 3.0900e-003   | 0.2603        | 0.0740         | 2.9500e-003   | 0.0770        |          | 1,065.454<br>8         | 1,065.454<br>8         | 0.0701        |     | 1,067.206<br>6         |
| Worker       | 0.5044        | 0.2876        | 3.6753        | 0.0140        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,396.349<br>8         | 1,396.349<br>8         | 0.0305        |     | 1,397.111<br>8         |
| <b>Total</b> | <b>0.5811</b> | <b>3.2065</b> | <b>4.5037</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0132</b> | <b>2.0585</b> | <b>0.5483</b>  | <b>0.0122</b> | <b>0.5605</b> |          | <b>2,461.804<br/>6</b> | <b>2,461.804<br/>6</b> | <b>0.1006</b> |     | <b>2,464.318<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2027****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0767        | 2.9190        | 0.8284        | 9.8100e-003   | 0.2572        | 3.0900e-003   | 0.2603        | 0.0740         | 2.9500e-003   | 0.0770        |          | 1,065.454<br>8         | 1,065.454<br>8         | 0.0701        |     | 1,067.206<br>6         |
| Worker       | 0.5044        | 0.2876        | 3.6753        | 0.0140        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,396.349<br>8         | 1,396.349<br>8         | 0.0305        |     | 1,397.111<br>8         |
| <b>Total</b> | <b>0.5811</b> | <b>3.2065</b> | <b>4.5037</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0132</b> | <b>2.0585</b> | <b>0.5483</b>  | <b>0.0122</b> | <b>0.5605</b> |          | <b>2,461.804<br/>6</b> | <b>2,461.804<br/>6</b> | <b>0.1006</b> |     | <b>2,464.318<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2028****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0754        | 2.8858        | 0.8230        | 9.7600e-003   | 0.2572        | 3.0300e-003   | 0.2602        | 0.0740         | 2.8900e-003   | 0.0769        |          | 1,060.560<br>8         | 1,060.560<br>8         | 0.0695        |     | 1,062.297<br>2         |
| Worker       | 0.4805        | 0.2697        | 3.4865        | 0.0136        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,353.943<br>7         | 1,353.943<br>7         | 0.0288        |     | 1,354.662<br>4         |
| <b>Total</b> | <b>0.5559</b> | <b>3.1554</b> | <b>4.3095</b> | <b>0.0233</b> | <b>2.0454</b> | <b>0.0123</b> | <b>2.0577</b> | <b>0.5483</b>  | <b>0.0115</b> | <b>0.5597</b> |          | <b>2,414.504<br/>4</b> | <b>2,414.504<br/>4</b> | <b>0.0982</b> |     | <b>2,416.959<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2028****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0754        | 2.8858        | 0.8230        | 9.7600e-003   | 0.2572        | 3.0300e-003   | 0.2602        | 0.0740         | 2.8900e-003   | 0.0769        |          | 1,060.560<br>8         | 1,060.560<br>8         | 0.0695        |     | 1,062.297<br>2         |
| Worker       | 0.4805        | 0.2697        | 3.4865        | 0.0136        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,353.943<br>7         | 1,353.943<br>7         | 0.0288        |     | 1,354.662<br>4         |
| <b>Total</b> | <b>0.5559</b> | <b>3.1554</b> | <b>4.3095</b> | <b>0.0233</b> | <b>2.0454</b> | <b>0.0123</b> | <b>2.0577</b> | <b>0.5483</b>  | <b>0.0115</b> | <b>0.5597</b> |          | <b>2,414.504<br/>4</b> | <b>2,414.504<br/>4</b> | <b>0.0982</b> |     | <b>2,416.959<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2029****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0740        | 2.8516        | 0.8170        | 9.7000e-003   | 0.2572        | 2.9600e-003   | 0.2601        | 0.0740         | 2.8300e-003   | 0.0769        |          | 1,055.759<br>7         | 1,055.759<br>7         | 0.0690        |     | 1,057.484<br>8         |
| Worker       | 0.4546        | 0.2532        | 3.3072        | 0.0132        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,316.696<br>9         | 1,316.696<br>9         | 0.0272        |     | 1,317.375<br>5         |
| <b>Total</b> | <b>0.5286</b> | <b>3.1048</b> | <b>4.1241</b> | <b>0.0229</b> | <b>2.0454</b> | <b>0.0116</b> | <b>2.0570</b> | <b>0.5483</b>  | <b>0.0108</b> | <b>0.5590</b> |          | <b>2,372.456<br/>6</b> | <b>2,372.456<br/>6</b> | <b>0.0962</b> |     | <b>2,374.860<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2029****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0740        | 2.8516        | 0.8170        | 9.7000e-003   | 0.2572        | 2.9600e-003   | 0.2601        | 0.0740         | 2.8300e-003   | 0.0769        |          | 1,055.759<br>7         | 1,055.759<br>7         | 0.0690        |     | 1,057.484<br>8         |
| Worker       | 0.4546        | 0.2532        | 3.3072        | 0.0132        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,316.696<br>9         | 1,316.696<br>9         | 0.0272        |     | 1,317.375<br>5         |
| <b>Total</b> | <b>0.5286</b> | <b>3.1048</b> | <b>4.1241</b> | <b>0.0229</b> | <b>2.0454</b> | <b>0.0116</b> | <b>2.0570</b> | <b>0.5483</b>  | <b>0.0108</b> | <b>0.5590</b> |          | <b>2,372.456<br/>6</b> | <b>2,372.456<br/>6</b> | <b>0.0962</b> |     | <b>2,374.860<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2030****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0730        | 2.8227        | 0.8138        | 9.6600e-003   | 0.2572        | 2.9000e-003   | 0.2601        | 0.0740         | 2.7700e-003   | 0.0768        |          | 1,051.8763        | 1,051.8763        | 0.0686        |     | 1,053.5916        |
| Worker       | 0.4262        | 0.2373        | 3.1372        | 0.0129        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,283.9767        | 1,283.9767        | 0.0256        |     | 1,284.6175        |
| <b>Total</b> | <b>0.4992</b> | <b>3.0600</b> | <b>3.9510</b> | <b>0.0225</b> | <b>2.0454</b> | <b>0.0109</b> | <b>2.0563</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5584</b> |          | <b>2,335.8530</b> | <b>2,335.8530</b> | <b>0.0942</b> |     | <b>2,338.2092</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2030****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0730        | 2.8227        | 0.8138        | 9.6600e-003   | 0.2572        | 2.9000e-003   | 0.2601        | 0.0740         | 2.7700e-003   | 0.0768        |          | 1,051.8763        | 1,051.8763        | 0.0686        |     | 1,053.5916        |
| Worker       | 0.4262        | 0.2373        | 3.1372        | 0.0129        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,283.9767        | 1,283.9767        | 0.0256        |     | 1,284.6175        |
| <b>Total</b> | <b>0.4992</b> | <b>3.0600</b> | <b>3.9510</b> | <b>0.0225</b> | <b>2.0454</b> | <b>0.0109</b> | <b>2.0563</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5584</b> |          | <b>2,335.8530</b> | <b>2,335.8530</b> | <b>0.0942</b> |     | <b>2,338.2092</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0722        | 2.7977        | 0.8112        | 9.6200e-003   | 0.2572        | 2.8500e-003   | 0.2600        | 0.0740         | 2.7200e-003        | 0.0768        |          | 1,048.6160        | 1,048.6160        | 0.0683        |     | 1,050.3223        |
| Worker       | 0.3960        | 0.2224        | 2.9761        | 0.0126        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,255.3670        | 1,255.3670        | 0.0243        |     | 1,255.9738        |
| <b>Total</b> | <b>0.4682</b> | <b>3.0201</b> | <b>3.7872</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0103</b> | <b>2.0557</b> | <b>0.5483</b>  | <b>9.5800e-003</b> | <b>0.5578</b> |          | <b>2,303.9830</b> | <b>2,303.9830</b> | <b>0.0925</b> |     | <b>2,306.2960</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**3.6 Building Construction - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0722        | 2.7977        | 0.8112        | 9.6200e-003   | 0.2572        | 2.8500e-003   | 0.2600        | 0.0740         | 2.7200e-003        | 0.0768        |          | 1,048.6160        | 1,048.6160        | 0.0683        |     | 1,050.3223        |
| Worker       | 0.3960        | 0.2224        | 2.9761        | 0.0126        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,255.3670        | 1,255.3670        | 0.0243        |     | 1,255.9738        |
| <b>Total</b> | <b>0.4682</b> | <b>3.0201</b> | <b>3.7872</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0103</b> | <b>2.0557</b> | <b>0.5483</b>  | <b>9.5800e-003</b> | <b>0.5578</b> |          | <b>2,303.9830</b> | <b>2,303.9830</b> | <b>0.0925</b> |     | <b>2,306.2960</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 8 - UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 3.8229 | 19.5846 | 52.4066 | 0.2632 | 31.7937       | 0.0913       | 31.8850    | 8.4973         | 0.0851        | 8.5824      |          | 27,104.9982 | 27,104.9982 | 1.1893 |     | 27,134.7296 |
| Unmitigated | 3.8229 | 19.5846 | 52.4066 | 0.2632 | 31.7937       | 0.0913       | 31.8850    | 8.4973         | 0.0851        | 8.5824      |          | 27,104.9982 | 27,104.9982 | 1.1893 |     | 27,134.7296 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 3,890.00                | 4,049.49 | 3520.45  | 14,284,518  | 14,284,518 |
| Total                 | 3,890.00                | 4,049.49 | 3,520.45 | 14,284,518  | 14,284,518 |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 8 - UM - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |
| NaturalGas Unmitigated | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |

## Desert Subregion 8 - UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39567.6        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</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/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39.5676        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 8 - UM - San Diego County, Summer

|             | ROG      | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2  | Total CO2   | CH4     | N2O    | CO2e        |
|-------------|----------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|------------|-------------|---------|--------|-------------|
| Category    | lb/day   |         |          |        |               |              |            |                |               |             | lb/day      |            |             |         |        |             |
| Mitigated   | 612.4639 | 11.9948 | 766.8144 | 1.3331 |               | 103.2127     | 103.2127   |                | 103.2127      | 103.2127    | 10,803.2033 | 4,588.4927 | 15,391.6960 | 10.0246 | 0.8498 | 15,895.5367 |
| Unmitigated | 612.4639 | 11.9948 | 766.8144 | 1.3331 |               | 103.2127     | 103.2127   |                | 103.2127      | 103.2127    | 10,803.2033 | 4,588.4927 | 15,391.6960 | 10.0246 | 0.8498 | 15,895.5367 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2         | Total CO2          | CH4            | N2O           | CO2e               |
|-----------------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|-------------------|--------------------|----------------|---------------|--------------------|
| SubCategory           | lb/day          |                |                 |               |               |                 |                 |                |                 |                 | lb/day             |                   |                    |                |               |                    |
| Architectural Coating | 1.2004          |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Consumer Products     | 14.9843         |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Hearth                | 595.3236        | 11.6260        | 734.8624        | 1.3314        |               | 103.0347        | 103.0347        |                | 103.0347        | 103.0347        | 10,803.2033        | 4,530.7059        | 15,333.9091        | 9.9696         | 0.8498        | 15,836.3748        |
| Landscaping           | 0.9557          | 0.3688         | 31.9520         | 1.6900e-003   |               | 0.1780          | 0.1780          |                | 0.1780          | 0.1780          |                    | 57.7868           | 57.7868            | 0.0550         |               | 59.1619            |
| <b>Total</b>          | <b>612.4639</b> | <b>11.9948</b> | <b>766.8144</b> | <b>1.3331</b> |               | <b>103.2127</b> | <b>103.2127</b> |                | <b>103.2127</b> | <b>103.2127</b> | <b>10,803.2033</b> | <b>4,588.4927</b> | <b>15,391.6960</b> | <b>10.0246</b> | <b>0.8498</b> | <b>15,895.5367</b> |

## Desert Subregion 8 - UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2         | Total CO2          | CH4            | N2O           | CO2e               |
|-----------------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|-------------------|--------------------|----------------|---------------|--------------------|
| SubCategory           | lb/day          |                |                 |               |               |                 |                 |                |                 |                 | lb/day             |                   |                    |                |               |                    |
| Architectural Coating | 1.2004          |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Consumer Products     | 14.9843         |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Hearth                | 595.3236        | 11.6260        | 734.8624        | 1.3314        |               | 103.0347        | 103.0347        |                | 103.0347        | 103.0347        | 10,803.2033        | 4,530.7059        | 15,333.9091        | 9.9696         | 0.8498        | 15,836.3748        |
| Landscaping           | 0.9557          | 0.3688         | 31.9520         | 1.6900e-003   |               | 0.1780          | 0.1780          |                | 0.1780          | 0.1780          |                    | 57.7868           | 57.7868            | 0.0550         |               | 59.1619            |
| <b>Total</b>          | <b>612.4639</b> | <b>11.9948</b> | <b>766.8144</b> | <b>1.3331</b> |               | <b>103.2127</b> | <b>103.2127</b> |                | <b>103.2127</b> | <b>103.2127</b> | <b>10,803.2033</b> | <b>4,588.4927</b> | <b>15,391.6960</b> | <b>10.0246</b> | <b>0.8498</b> | <b>15,895.5367</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 8 - UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 8 - M - San Diego County, Summer

## Desert Subregion 8 - M

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 389.00 | Dwelling Unit | 126.30      | 700,200.00         | 1113       |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Desert Subregion 8 - M - San Diego County, Summer

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 3/18/2033 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 7/11/2031 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/23/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/14/2032 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/15/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/15/2032 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/24/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 6/16/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 7/12/2031 |
| tblFireplaces             | NumberGas                       | 213.95     | 389.00    |
| tblFireplaces             | NumberNoFireplace               | 38.90      | 0.00      |
| tblFireplaces             | NumberWood                      | 136.15     | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 19.45      | 0.00      |

## Desert Subregion 8 - M - San Diego County, Summer

|               |   |                    |   |       |   |      |
|---------------|---|--------------------|---|-------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 19.45 | : | 0.00 |
|---------------|---|--------------------|---|-------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

## Desert Subregion 8 - M - San Diego County, Summer

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 4.8476  | 54.6015 | 34.2866 | 0.0647      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,408.108<br>5 | 6,408.108<br>5 | 1.9510 | 0.0000 | 6,456.882<br>8 |
| 2020    | 2.9795  | 24.2319 | 23.8346 | 0.0558      | 2.0454        | 1.1502       | 3.1956     | 0.5483         | 1.0816        | 1.6299      | 0.0000   | 5,511.639<br>0 | 5,511.639<br>0 | 0.7624 | 0.0000 | 5,530.699<br>0 |
| 2021    | 2.6933  | 22.0079 | 23.0836 | 0.0551      | 2.0454        | 0.9787       | 3.0241     | 0.5483         | 0.9201        | 1.4684      | 0.0000   | 5,440.416<br>1 | 5,440.416<br>1 | 0.7480 | 0.0000 | 5,459.116<br>0 |
| 2022    | 2.4546  | 19.9318 | 22.4361 | 0.0543      | 2.0454        | 0.8277       | 2.8731     | 0.5483         | 0.7786        | 1.3269      | 0.0000   | 5,366.302<br>1 | 5,366.302<br>1 | 0.7372 | 0.0000 | 5,384.732<br>0 |
| 2023    | 2.2628  | 17.8598 | 21.8748 | 0.0534      | 2.0454        | 0.7146       | 2.7600     | 0.5483         | 0.6722        | 1.2205      | 0.0000   | 5,273.910<br>1 | 5,273.910<br>1 | 0.7222 | 0.0000 | 5,291.965<br>2 |
| 2024    | 2.1292  | 16.8447 | 21.4632 | 0.0526      | 2.0454        | 0.6278       | 2.6732     | 0.5483         | 0.5904        | 1.1387      | 0.0000   | 5,203.080<br>2 | 5,203.080<br>2 | 0.7145 | 0.0000 | 5,220.941<br>6 |
| 2025    | 1.9970  | 15.8002 | 21.0730 | 0.0519      | 2.0454        | 0.5418       | 2.5872     | 0.5483         | 0.5095        | 1.0578      | 0.0000   | 5,133.779<br>7 | 5,133.779<br>7 | 0.7074 | 0.0000 | 5,151.463<br>6 |
| 2026    | 1.9726  | 15.7359 | 20.8159 | 0.0513      | 2.0454        | 0.5414       | 2.5868     | 0.5483         | 0.5091        | 1.0574      | 0.0000   | 5,072.457<br>8 | 5,072.457<br>8 | 0.7042 | 0.0000 | 5,090.063<br>4 |
| 2027    | 1.9485  | 15.6762 | 20.5884 | 0.0508      | 2.0454        | 0.5407       | 2.5861     | 0.5483         | 0.5085        | 1.0567      | 0.0000   | 5,018.279<br>0 | 5,018.279<br>0 | 0.7015 | 0.0000 | 5,035.816<br>5 |
| 2028    | 1.9233  | 15.6251 | 20.3941 | 0.0503      | 2.0454        | 0.5399       | 2.5853     | 0.5483         | 0.5077        | 1.0560      | 0.0000   | 4,970.978<br>8 | 4,970.978<br>8 | 0.6992 | 0.0000 | 4,988.457<br>6 |
| 2029    | 1.8960  | 15.5745 | 20.2088 | 0.0499      | 2.0454        | 0.5392       | 2.5845     | 0.5483         | 0.5070        | 1.0553      | 0.0000   | 4,928.930<br>9 | 4,928.930<br>9 | 0.6971 | 0.0000 | 4,946.358<br>3 |
| 2030    | 1.8083  | 10.9946 | 20.1080 | 0.0535      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1583        | 0.7066      | 0.0000   | 5,233.399<br>7 | 5,233.399<br>7 | 0.2105 | 0.0000 | 5,238.662<br>0 |
| 2031    | 1.7774  | 10.9548 | 19.9442 | 0.0532      | 2.0454        | 0.3314       | 2.2038     | 0.5483         | 0.3314        | 0.7060      | 0.0000   | 5,201.529<br>7 | 5,201.529<br>7 | 0.2088 | 0.0000 | 5,206.748<br>9 |
| 2032    | 20.1198 | 7.1427  | 16.1535 | 0.0294      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,788.361<br>1 | 2,788.361<br>1 | 0.1270 | 0.0000 | 2,791.536<br>5 |
| 2033    | 20.1151 | 0.8962  | 2.3413  | 5.3900e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 523.2837       | 523.2837       | 0.0158 | 0.0000 | 523.6795       |
| Maximum | 20.1198 | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

Desert Subregion 8 - M - San Diego County, Summer

## **2.1 Overall Construction (Maximum Daily Emission)**

### **Mitigated Construction**

## Desert Subregion 8 - M - San Diego County, Summer

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 4.8476  | 54.6015 | 34.2866 | 0.0647      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,408.108<br>5 | 6,408.108<br>5 | 1.9510 | 0.0000 | 6,456.882<br>8 |
| 2020    | 2.9795  | 24.2319 | 23.8346 | 0.0558      | 2.0454        | 1.1502       | 3.1956     | 0.5483         | 1.0816        | 1.6299      | 0.0000   | 5,511.639<br>0 | 5,511.639<br>0 | 0.7624 | 0.0000 | 5,530.699<br>0 |
| 2021    | 2.6933  | 22.0079 | 23.0836 | 0.0551      | 2.0454        | 0.9787       | 3.0241     | 0.5483         | 0.9201        | 1.4684      | 0.0000   | 5,440.416<br>1 | 5,440.416<br>1 | 0.7480 | 0.0000 | 5,459.116<br>0 |
| 2022    | 2.4546  | 19.9318 | 22.4361 | 0.0543      | 2.0454        | 0.8277       | 2.8731     | 0.5483         | 0.7786        | 1.3269      | 0.0000   | 5,366.302<br>1 | 5,366.302<br>1 | 0.7372 | 0.0000 | 5,384.732<br>0 |
| 2023    | 2.2628  | 17.8598 | 21.8748 | 0.0534      | 2.0454        | 0.7146       | 2.7600     | 0.5483         | 0.6722        | 1.2205      | 0.0000   | 5,273.910<br>1 | 5,273.910<br>1 | 0.7222 | 0.0000 | 5,291.965<br>2 |
| 2024    | 2.1292  | 16.8447 | 21.4632 | 0.0526      | 2.0454        | 0.6278       | 2.6732     | 0.5483         | 0.5904        | 1.1387      | 0.0000   | 5,203.080<br>2 | 5,203.080<br>2 | 0.7145 | 0.0000 | 5,220.941<br>6 |
| 2025    | 1.9970  | 15.8002 | 21.0730 | 0.0519      | 2.0454        | 0.5418       | 2.5872     | 0.5483         | 0.5095        | 1.0578      | 0.0000   | 5,133.779<br>7 | 5,133.779<br>7 | 0.7074 | 0.0000 | 5,151.463<br>6 |
| 2026    | 1.9726  | 15.7359 | 20.8159 | 0.0513      | 2.0454        | 0.5414       | 2.5868     | 0.5483         | 0.5091        | 1.0574      | 0.0000   | 5,072.457<br>8 | 5,072.457<br>8 | 0.7042 | 0.0000 | 5,090.063<br>4 |
| 2027    | 1.9485  | 15.6762 | 20.5884 | 0.0508      | 2.0454        | 0.5407       | 2.5861     | 0.5483         | 0.5085        | 1.0567      | 0.0000   | 5,018.279<br>0 | 5,018.279<br>0 | 0.7015 | 0.0000 | 5,035.816<br>5 |
| 2028    | 1.9233  | 15.6251 | 20.3941 | 0.0503      | 2.0454        | 0.5399       | 2.5853     | 0.5483         | 0.5077        | 1.0560      | 0.0000   | 4,970.978<br>8 | 4,970.978<br>8 | 0.6992 | 0.0000 | 4,988.457<br>6 |
| 2029    | 1.8960  | 15.5745 | 20.2088 | 0.0499      | 2.0454        | 0.5392       | 2.5845     | 0.5483         | 0.5070        | 1.0553      | 0.0000   | 4,928.930<br>9 | 4,928.930<br>9 | 0.6971 | 0.0000 | 4,946.358<br>3 |
| 2030    | 1.8083  | 10.9946 | 20.1080 | 0.0535      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1583        | 0.7066      | 0.0000   | 5,233.399<br>7 | 5,233.399<br>7 | 0.2105 | 0.0000 | 5,238.662<br>0 |
| 2031    | 1.7774  | 10.9548 | 19.9442 | 0.0532      | 2.0454        | 0.3314       | 2.2038     | 0.5483         | 0.3314        | 0.7060      | 0.0000   | 5,201.529<br>7 | 5,201.529<br>7 | 0.2088 | 0.0000 | 5,206.748<br>9 |
| 2032    | 20.1198 | 7.1427  | 16.1535 | 0.0294      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,788.361<br>1 | 2,788.361<br>1 | 0.1270 | 0.0000 | 2,791.536<br>5 |
| 2033    | 20.1151 | 0.8962  | 2.3413  | 5.3900e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 523.2837       | 523.2837       | 0.0158 | 0.0000 | 523.6795       |
| Maximum | 20.1198 | 59.6127 | 36.0959 | 0.0648      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

## Desert Subregion 8 - M - San Diego County, Summer

[illegible]

## Desert Subregion 8 - M - San Diego County, Summer

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

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2               | Total CO2               | CH4           | N2O           | CO2e                    |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                         |                         |               |               |                         |
| Area         | 17.8954        | 6.8216         | 34.6979        | 0.0429        |                | 0.6997        | 0.6997         |                | 0.6997        | 0.6997        | 0.0000        | 8,295.433<br>9          | 8,295.433<br>9          | 0.2129        | 0.1510        | 8,345.761<br>2          |
| Energy       | 0.4267         | 3.6464         | 1.5517         | 0.0233        |                | 0.2948        | 0.2948         |                | 0.2948        | 0.2948        |               | 4,655.010<br>4          | 4,655.010<br>4          | 0.0892        | 0.0853        | 4,682.672<br>8          |
| Mobile       | 3.8229         | 19.5846        | 52.4066        | 0.2632        | 31.7937        | 0.0913        | 31.8850        | 8.4973         | 0.0851        | 8.5824        |               | 27,104.99<br>82         | 27,104.99<br>82         | 1.1893        |               | 27,134.72<br>96         |
| <b>Total</b> | <b>22.1451</b> | <b>30.0527</b> | <b>88.6562</b> | <b>0.3294</b> | <b>31.7937</b> | <b>1.0859</b> | <b>32.8795</b> | <b>8.4973</b>  | <b>1.0796</b> | <b>9.5769</b> | <b>0.0000</b> | <b>40,055.44<br/>24</b> | <b>40,055.44<br/>24</b> | <b>1.4914</b> | <b>0.2364</b> | <b>40,163.16<br/>36</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     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                         |                         |               |               |                         |
| Area         | 17.8954        | 6.8216         | 34.6979        | 0.0429        |                | 0.6997        | 0.6997         |                | 0.6997        | 0.6997        | 0.0000        | 8,295.433<br>9          | 8,295.433<br>9          | 0.2129        | 0.1510        | 8,345.761<br>2          |
| Energy       | 0.4267         | 3.6464         | 1.5517         | 0.0233        |                | 0.2948        | 0.2948         |                | 0.2948        | 0.2948        |               | 4,655.010<br>4          | 4,655.010<br>4          | 0.0892        | 0.0853        | 4,682.672<br>8          |
| Mobile       | 3.8229         | 19.5846        | 52.4066        | 0.2632        | 31.7937        | 0.0913        | 31.8850        | 8.4973         | 0.0851        | 8.5824        |               | 27,104.99<br>82         | 27,104.99<br>82         | 1.1893        |               | 27,134.72<br>96         |
| <b>Total</b> | <b>22.1451</b> | <b>30.0527</b> | <b>88.6562</b> | <b>0.3294</b> | <b>31.7937</b> | <b>1.0859</b> | <b>32.8795</b> | <b>8.4973</b>  | <b>1.0796</b> | <b>9.5769</b> | <b>0.0000</b> | <b>40,055.44<br/>24</b> | <b>40,055.44<br/>24</b> | <b>1.4914</b> | <b>0.2364</b> | <b>40,163.16<br/>36</b> |

## Desert Subregion 8 - M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 6/15/2018 | 5             | 120      |                   |
| 2            | Architectural Coating | Architectural Coating | 5/15/2032  | 3/18/2033 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 6/16/2018  | 8/23/2019 | 5             | 310      |                   |
| 4            | Paving                | Paving                | 7/12/2031  | 5/14/2032 | 5             | 220      |                   |
| 5            | Building Construction | Building Construction | 8/24/2019  | 7/11/2031 | 5             | 3100     |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 1,417,905; Residential Outdoor: 472,635; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 8 - M - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 28.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 140.00             | 42.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 8 - M - San Diego County, Summer

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.3 Architectural Coating - 2032****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0739        | 0.0420        | 0.5675        | 2.4700e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 246.1094        | 246.1094        | 4.6300e-003        |     | 246.2252        |
| <b>Total</b> | <b>0.0739</b> | <b>0.0420</b> | <b>0.5675</b> | <b>2.4700e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>246.1094</b> | <b>246.1094</b> | <b>4.6300e-003</b> |     | <b>246.2252</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.3 Architectural Coating - 2032****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0739        | 0.0420        | 0.5675        | 2.4700e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 246.1094        | 246.1094        | 4.6300e-003        |     | 246.2252        |
| <b>Total</b> | <b>0.0739</b> | <b>0.0420</b> | <b>0.5675</b> | <b>2.4700e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>246.1094</b> | <b>246.1094</b> | <b>4.6300e-003</b> |     | <b>246.2252</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.3 Architectural Coating - 2033****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0399        | 0.5436        | 2.4200e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 241.8357        | 241.8357        | 4.4400e-003        |     | 241.9467        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0399</b> | <b>0.5436</b> | <b>2.4200e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>241.8357</b> | <b>241.8357</b> | <b>4.4400e-003</b> |     | <b>241.9467</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.3 Architectural Coating - 2033****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0399        | 0.5436        | 2.4200e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 241.8357        | 241.8357        | 4.4400e-003        |     | 241.9467        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0399</b> | <b>0.5436</b> | <b>2.4200e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>241.8357</b> | <b>241.8357</b> | <b>4.4400e-003</b> |     | <b>241.9467</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.4 Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        |          | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> |          | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1087        | 0.0814        | 0.9099        | 2.6900e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 268.0890        | 268.0890        | 8.3400e-003        |     | 268.2974        |
| <b>Total</b> | <b>0.1087</b> | <b>0.0814</b> | <b>0.9099</b> | <b>2.6900e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>268.0890</b> | <b>268.0890</b> | <b>8.3400e-003</b> |     | <b>268.2974</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.4 Grading - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        | 0.0000        | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> | <b>0.0000</b> | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1087        | 0.0814        | 0.9099        | 2.6900e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 268.0890        | 268.0890        | 8.3400e-003        |     | 268.2974        |
| <b>Total</b> | <b>0.1087</b> | <b>0.0814</b> | <b>0.9099</b> | <b>2.6900e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>268.0890</b> | <b>268.0890</b> | <b>8.3400e-003</b> |     | <b>268.2974</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.5 Paving - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0424        | 0.0238        | 0.3189        | 1.3500e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 134.5036        | 134.5036        | 2.6000e-003        |     | 134.5686        |
| <b>Total</b> | <b>0.0424</b> | <b>0.0238</b> | <b>0.3189</b> | <b>1.3500e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>134.5036</b> | <b>134.5036</b> | <b>2.6000e-003</b> |     | <b>134.5686</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.5 Paving - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0424        | 0.0238        | 0.3189        | 1.3500e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 134.5036        | 134.5036        | 2.6000e-003        |     | 134.5686        |
| <b>Total</b> | <b>0.0424</b> | <b>0.0238</b> | <b>0.3189</b> | <b>1.3500e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>134.5036</b> | <b>134.5036</b> | <b>2.6000e-003</b> |     | <b>134.5686</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.5 Paving - 2032****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0396        | 0.0225        | 0.3040        | 1.3200e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 131.8443        | 131.8443        | 2.4800e-003        |     | 131.9063        |
| <b>Total</b> | <b>0.0396</b> | <b>0.0225</b> | <b>0.3040</b> | <b>1.3200e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>131.8443</b> | <b>131.8443</b> | <b>2.4800e-003</b> |     | <b>131.9063</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.5 Paving - 2032****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0396        | 0.0225        | 0.3040        | 1.3200e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 131.8443        | 131.8443        | 2.4800e-003        |     | 131.9063        |
| <b>Total</b> | <b>0.0396</b> | <b>0.0225</b> | <b>0.3040</b> | <b>1.3200e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>131.8443</b> | <b>131.8443</b> | <b>2.4800e-003</b> |     | <b>131.9063</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1813        | 4.9665        | 1.2779        | 0.0107        | 0.2572        | 0.0330        | 0.2901        | 0.0740         | 0.0315        | 0.1056        |          | 1,148.623<br>8         | 1,148.623<br>8         | 0.0915        |     | 1,150.910<br>2         |
| Worker       | 0.7610        | 0.5696        | 6.3691        | 0.0188        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,876.623<br>1         | 1,876.623<br>1         | 0.0584        |     | 1,878.081<br>9         |
| <b>Total</b> | <b>0.9422</b> | <b>5.5360</b> | <b>7.6469</b> | <b>0.0295</b> | <b>2.0454</b> | <b>0.0452</b> | <b>2.0906</b> | <b>0.5483</b>  | <b>0.0428</b> | <b>0.5911</b> |          | <b>3,025.247<br/>0</b> | <b>3,025.247<br/>0</b> | <b>0.1498</b> |     | <b>3,028.992<br/>1</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1813        | 4.9665        | 1.2779        | 0.0107        | 0.2572        | 0.0330        | 0.2901        | 0.0740         | 0.0315        | 0.1056        |          | 1,148.623<br>8         | 1,148.623<br>8         | 0.0915        |     | 1,150.910<br>2         |
| Worker       | 0.7610        | 0.5696        | 6.3691        | 0.0188        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,876.623<br>1         | 1,876.623<br>1         | 0.0584        |     | 1,878.081<br>9         |
| <b>Total</b> | <b>0.9422</b> | <b>5.5360</b> | <b>7.6469</b> | <b>0.0295</b> | <b>2.0454</b> | <b>0.0452</b> | <b>2.0906</b> | <b>0.5483</b>  | <b>0.0428</b> | <b>0.5911</b> |          | <b>3,025.247<br/>0</b> | <b>3,025.247<br/>0</b> | <b>0.1498</b> |     | <b>3,028.992<br/>1</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1477        | 4.5315        | 1.1476        | 0.0106        | 0.2572        | 0.0211        | 0.2783        | 0.0740         | 0.0202        | 0.0942        |          | 1,141.212<br>1         | 1,141.212<br>1         | 0.0867        |     | 1,143.378<br>9         |
| Worker       | 0.7120        | 0.5143        | 5.8384        | 0.0182        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,817.363<br>9         | 1,817.363<br>9         | 0.0529        |     | 1,818.685<br>6         |
| <b>Total</b> | <b>0.8597</b> | <b>5.0458</b> | <b>6.9861</b> | <b>0.0289</b> | <b>2.0454</b> | <b>0.0332</b> | <b>2.0786</b> | <b>0.5483</b>  | <b>0.0313</b> | <b>0.5796</b> |          | <b>2,958.576<br/>0</b> | <b>2,958.576<br/>0</b> | <b>0.1395</b> |     | <b>2,962.064<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1477        | 4.5315        | 1.1476        | 0.0106        | 0.2572        | 0.0211        | 0.2783        | 0.0740         | 0.0202        | 0.0942        |          | 1,141.212<br>1         | 1,141.212<br>1         | 0.0867        |     | 1,143.378<br>9         |
| Worker       | 0.7120        | 0.5143        | 5.8384        | 0.0182        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,817.363<br>9         | 1,817.363<br>9         | 0.0529        |     | 1,818.685<br>6         |
| <b>Total</b> | <b>0.8597</b> | <b>5.0458</b> | <b>6.9861</b> | <b>0.0289</b> | <b>2.0454</b> | <b>0.0332</b> | <b>2.0786</b> | <b>0.5483</b>  | <b>0.0313</b> | <b>0.5796</b> |          | <b>2,958.576<br/>0</b> | <b>2,958.576<br/>0</b> | <b>0.1395</b> |     | <b>2,962.064<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1201        | 4.1078        | 1.0377        | 0.0105        | 0.2572        | 8.2200e-003   | 0.2654        | 0.0740         | 7.8600e-003   | 0.0819        |          | 1,130.7714        | 1,130.7714        | 0.0831        |     | 1,132.8490        |
| Worker       | 0.6723        | 0.4679        | 5.4707        | 0.0176        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,756.2808        | 1,756.2808        | 0.0489        |     | 1,757.5027        |
| <b>Total</b> | <b>0.7924</b> | <b>4.5758</b> | <b>6.5084</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0201</b> | <b>2.0655</b> | <b>0.5483</b>  | <b>0.0188</b> | <b>0.5671</b> |          | <b>2,887.0522</b> | <b>2,887.0522</b> | <b>0.1320</b> |     | <b>2,890.3517</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1201        | 4.1078        | 1.0377        | 0.0105        | 0.2572        | 8.2200e-003   | 0.2654        | 0.0740         | 7.8600e-003   | 0.0819        |          | 1,130.771<br>4         | 1,130.771<br>4         | 0.0831        |     | 1,132.849<br>0         |
| Worker       | 0.6723        | 0.4679        | 5.4707        | 0.0176        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,756.280<br>8         | 1,756.280<br>8         | 0.0489        |     | 1,757.502<br>7         |
| <b>Total</b> | <b>0.7924</b> | <b>4.5758</b> | <b>6.5084</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0201</b> | <b>2.0655</b> | <b>0.5483</b>  | <b>0.0188</b> | <b>0.5671</b> |          | <b>2,887.052<br/>2</b> | <b>2,887.052<br/>2</b> | <b>0.1320</b> |     | <b>2,890.351<br/>7</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2022****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        |          | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1116        | 3.8891        | 0.9816        | 0.0104        | 0.2572        | 7.0700e-003   | 0.2642        | 0.0740         | 6.7600e-003   | 0.0808        |          | 1,120.1742        | 1,120.1742        | 0.0804        |     | 1,122.1848        |
| Worker       | 0.6367        | 0.4271        | 5.0912        | 0.0170        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,691.7943        | 1,691.7943        | 0.0448        |     | 1,692.9149        |
| <b>Total</b> | <b>0.7483</b> | <b>4.3161</b> | <b>6.0727</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0187</b> | <b>2.0641</b> | <b>0.5483</b>  | <b>0.0175</b> | <b>0.5657</b> |          | <b>2,811.9685</b> | <b>2,811.9685</b> | <b>0.1253</b> |     | <b>2,815.0998</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2022****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1116        | 3.8891        | 0.9816        | 0.0104        | 0.2572        | 7.0700e-003   | 0.2642        | 0.0740         | 6.7600e-003   | 0.0808        |          | 1,120.1742        | 1,120.1742        | 0.0804        |     | 1,122.1848        |
| Worker       | 0.6367        | 0.4271        | 5.0912        | 0.0170        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,691.7943        | 1,691.7943        | 0.0448        |     | 1,692.9149        |
| <b>Total</b> | <b>0.7483</b> | <b>4.3161</b> | <b>6.0727</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0187</b> | <b>2.0641</b> | <b>0.5483</b>  | <b>0.0175</b> | <b>0.5657</b> |          | <b>2,811.9685</b> | <b>2,811.9685</b> | <b>0.1253</b> |     | <b>2,815.0998</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2023****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0862        | 3.0846        | 0.8985        | 0.0101        | 0.2572        | 3.4400e-003   | 0.2606        | 0.0740         | 3.2900e-003   | 0.0773        |          | 1,091.6257        | 1,091.6257        | 0.0733        |     | 1,093.4584        |
| Worker       | 0.6039        | 0.3903        | 4.7323        | 0.0163        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,627.0745        | 1,627.0745        | 0.0411        |     | 1,628.1007        |
| <b>Total</b> | <b>0.6901</b> | <b>3.4749</b> | <b>5.6308</b> | <b>0.0264</b> | <b>2.0454</b> | <b>0.0148</b> | <b>2.0602</b> | <b>0.5483</b>  | <b>0.0138</b> | <b>0.5620</b> |          | <b>2,718.7002</b> | <b>2,718.7002</b> | <b>0.1144</b> |     | <b>2,721.5591</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2023****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0862        | 3.0846        | 0.8985        | 0.0101        | 0.2572        | 3.4400e-003   | 0.2606        | 0.0740         | 3.2900e-003   | 0.0773        |          | 1,091.6257        | 1,091.6257        | 0.0733        |     | 1,093.4584        |
| Worker       | 0.6039        | 0.3903        | 4.7323        | 0.0163        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,627.0745        | 1,627.0745        | 0.0411        |     | 1,628.1007        |
| <b>Total</b> | <b>0.6901</b> | <b>3.4749</b> | <b>5.6308</b> | <b>0.0264</b> | <b>2.0454</b> | <b>0.0148</b> | <b>2.0602</b> | <b>0.5483</b>  | <b>0.0138</b> | <b>0.5620</b> |          | <b>2,718.7002</b> | <b>2,718.7002</b> | <b>0.1144</b> |     | <b>2,721.5591</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        |          | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> |          | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0831        | 3.0427        | 0.8692        | 0.0100        | 0.2572        | 3.3600e-003   | 0.2605        | 0.0740         | 3.2100e-003   | 0.0773        |          | 1,084.4526        | 1,084.4526        | 0.0724        |     | 1,086.2615        |
| Worker       | 0.5746        | 0.3583        | 4.4272        | 0.0157        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,562.9287        | 1,562.9287        | 0.0378        |     | 1,563.8725        |
| <b>Total</b> | <b>0.6577</b> | <b>3.4010</b> | <b>5.2964</b> | <b>0.0257</b> | <b>2.0454</b> | <b>0.0145</b> | <b>2.0599</b> | <b>0.5483</b>  | <b>0.0135</b> | <b>0.5618</b> |          | <b>2,647.3813</b> | <b>2,647.3813</b> | <b>0.1101</b> |     | <b>2,650.1340</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2024****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        | 0.0000        | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> | <b>0.0000</b> | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0831        | 3.0427        | 0.8692        | 0.0100        | 0.2572        | 3.3600e-003   | 0.2605        | 0.0740         | 3.2100e-003   | 0.0773        |          | 1,084.4526        | 1,084.4526        | 0.0724        |     | 1,086.2615        |
| Worker       | 0.5746        | 0.3583        | 4.4272        | 0.0157        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,562.9287        | 1,562.9287        | 0.0378        |     | 1,563.8725        |
| <b>Total</b> | <b>0.6577</b> | <b>3.4010</b> | <b>5.2964</b> | <b>0.0257</b> | <b>2.0454</b> | <b>0.0145</b> | <b>2.0599</b> | <b>0.5483</b>  | <b>0.0135</b> | <b>0.5618</b> |          | <b>2,647.3813</b> | <b>2,647.3813</b> | <b>0.1101</b> |     | <b>2,650.1340</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2025****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0806        | 2.9999        | 0.8513        | 9.9500e-003   | 0.2572        | 3.2600e-003   | 0.2604        | 0.0740         | 3.1100e-003   | 0.0772        |          | 1,077.644<br>5         | 1,077.644<br>5         | 0.0715        |     | 1,079.432<br>7         |
| Worker       | 0.5491        | 0.3306        | 4.1370        | 0.0150        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,499.660<br>8         | 1,499.660<br>8         | 0.0349        |     | 1,500.532<br>8         |
| <b>Total</b> | <b>0.6296</b> | <b>3.3305</b> | <b>4.9883</b> | <b>0.0250</b> | <b>2.0454</b> | <b>0.0143</b> | <b>2.0596</b> | <b>0.5483</b>  | <b>0.0132</b> | <b>0.5615</b> |          | <b>2,577.305<br/>3</b> | <b>2,577.305<br/>3</b> | <b>0.1064</b> |     | <b>2,579.965<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2025****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0806        | 2.9999        | 0.8513        | 9.9500e-003   | 0.2572        | 3.2600e-003   | 0.2604        | 0.0740         | 3.1100e-003   | 0.0772        |          | 1,077.644<br>5         | 1,077.644<br>5         | 0.0715        |     | 1,079.432<br>7         |
| Worker       | 0.5491        | 0.3306        | 4.1370        | 0.0150        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,499.660<br>8         | 1,499.660<br>8         | 0.0349        |     | 1,500.532<br>8         |
| <b>Total</b> | <b>0.6296</b> | <b>3.3305</b> | <b>4.9883</b> | <b>0.0250</b> | <b>2.0454</b> | <b>0.0143</b> | <b>2.0596</b> | <b>0.5483</b>  | <b>0.0132</b> | <b>0.5615</b> |          | <b>2,577.305<br/>3</b> | <b>2,577.305<br/>3</b> | <b>0.1064</b> |     | <b>2,579.965<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2026****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0785        | 2.9585        | 0.8389        | 9.8800e-003   | 0.2572        | 3.1700e-003   | 0.2603        | 0.0740         | 3.0200e-003   | 0.0771        |          | 1,071.266<br>5         | 1,071.266<br>5         | 0.0708        |     | 1,073.035<br>2         |
| Worker       | 0.5268        | 0.3078        | 3.8923        | 0.0145        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,444.716<br>9         | 1,444.716<br>9         | 0.0325        |     | 1,445.530<br>2         |
| <b>Total</b> | <b>0.6052</b> | <b>3.2663</b> | <b>4.7312</b> | <b>0.0244</b> | <b>2.0454</b> | <b>0.0138</b> | <b>2.0592</b> | <b>0.5483</b>  | <b>0.0128</b> | <b>0.5611</b> |          | <b>2,515.983<br/>4</b> | <b>2,515.983<br/>4</b> | <b>0.1033</b> |     | <b>2,518.565<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2026****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0785        | 2.9585        | 0.8389        | 9.8800e-003   | 0.2572        | 3.1700e-003   | 0.2603        | 0.0740         | 3.0200e-003   | 0.0771        |          | 1,071.266<br>5         | 1,071.266<br>5         | 0.0708        |     | 1,073.035<br>2         |
| Worker       | 0.5268        | 0.3078        | 3.8923        | 0.0145        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,444.716<br>9         | 1,444.716<br>9         | 0.0325        |     | 1,445.530<br>2         |
| <b>Total</b> | <b>0.6052</b> | <b>3.2663</b> | <b>4.7312</b> | <b>0.0244</b> | <b>2.0454</b> | <b>0.0138</b> | <b>2.0592</b> | <b>0.5483</b>  | <b>0.0128</b> | <b>0.5611</b> |          | <b>2,515.983<br/>4</b> | <b>2,515.983<br/>4</b> | <b>0.1033</b> |     | <b>2,518.565<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2027****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0767        | 2.9190        | 0.8284        | 9.8100e-003   | 0.2572        | 3.0900e-003   | 0.2603        | 0.0740         | 2.9500e-003   | 0.0770        |          | 1,065.454<br>8         | 1,065.454<br>8         | 0.0701        |     | 1,067.206<br>6         |
| Worker       | 0.5044        | 0.2876        | 3.6753        | 0.0140        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,396.349<br>8         | 1,396.349<br>8         | 0.0305        |     | 1,397.111<br>8         |
| <b>Total</b> | <b>0.5811</b> | <b>3.2065</b> | <b>4.5037</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0132</b> | <b>2.0585</b> | <b>0.5483</b>  | <b>0.0122</b> | <b>0.5605</b> |          | <b>2,461.804<br/>6</b> | <b>2,461.804<br/>6</b> | <b>0.1006</b> |     | <b>2,464.318<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2027****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0767        | 2.9190        | 0.8284        | 9.8100e-003   | 0.2572        | 3.0900e-003   | 0.2603        | 0.0740         | 2.9500e-003   | 0.0770        |          | 1,065.454<br>8         | 1,065.454<br>8         | 0.0701        |     | 1,067.206<br>6         |
| Worker       | 0.5044        | 0.2876        | 3.6753        | 0.0140        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,396.349<br>8         | 1,396.349<br>8         | 0.0305        |     | 1,397.111<br>8         |
| <b>Total</b> | <b>0.5811</b> | <b>3.2065</b> | <b>4.5037</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0132</b> | <b>2.0585</b> | <b>0.5483</b>  | <b>0.0122</b> | <b>0.5605</b> |          | <b>2,461.804<br/>6</b> | <b>2,461.804<br/>6</b> | <b>0.1006</b> |     | <b>2,464.318<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2028****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0754        | 2.8858        | 0.8230        | 9.7600e-003   | 0.2572        | 3.0300e-003   | 0.2602        | 0.0740         | 2.8900e-003   | 0.0769        |          | 1,060.560<br>8         | 1,060.560<br>8         | 0.0695        |     | 1,062.297<br>2         |
| Worker       | 0.4805        | 0.2697        | 3.4865        | 0.0136        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,353.943<br>7         | 1,353.943<br>7         | 0.0288        |     | 1,354.662<br>4         |
| <b>Total</b> | <b>0.5559</b> | <b>3.1554</b> | <b>4.3095</b> | <b>0.0233</b> | <b>2.0454</b> | <b>0.0123</b> | <b>2.0577</b> | <b>0.5483</b>  | <b>0.0115</b> | <b>0.5597</b> |          | <b>2,414.504<br/>4</b> | <b>2,414.504<br/>4</b> | <b>0.0982</b> |     | <b>2,416.959<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2028****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0754        | 2.8858        | 0.8230        | 9.7600e-003   | 0.2572        | 3.0300e-003   | 0.2602        | 0.0740         | 2.8900e-003   | 0.0769        |          | 1,060.560<br>8         | 1,060.560<br>8         | 0.0695        |     | 1,062.297<br>2         |
| Worker       | 0.4805        | 0.2697        | 3.4865        | 0.0136        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,353.943<br>7         | 1,353.943<br>7         | 0.0288        |     | 1,354.662<br>4         |
| <b>Total</b> | <b>0.5559</b> | <b>3.1554</b> | <b>4.3095</b> | <b>0.0233</b> | <b>2.0454</b> | <b>0.0123</b> | <b>2.0577</b> | <b>0.5483</b>  | <b>0.0115</b> | <b>0.5597</b> |          | <b>2,414.504<br/>4</b> | <b>2,414.504<br/>4</b> | <b>0.0982</b> |     | <b>2,416.959<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2029****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0740        | 2.8516        | 0.8170        | 9.7000e-003   | 0.2572        | 2.9600e-003   | 0.2601        | 0.0740         | 2.8300e-003   | 0.0769        |          | 1,055.759<br>7         | 1,055.759<br>7         | 0.0690        |     | 1,057.484<br>8         |
| Worker       | 0.4546        | 0.2532        | 3.3072        | 0.0132        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,316.696<br>9         | 1,316.696<br>9         | 0.0272        |     | 1,317.375<br>5         |
| <b>Total</b> | <b>0.5286</b> | <b>3.1048</b> | <b>4.1241</b> | <b>0.0229</b> | <b>2.0454</b> | <b>0.0116</b> | <b>2.0570</b> | <b>0.5483</b>  | <b>0.0108</b> | <b>0.5590</b> |          | <b>2,372.456<br/>6</b> | <b>2,372.456<br/>6</b> | <b>0.0962</b> |     | <b>2,374.860<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2029****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0740        | 2.8516        | 0.8170        | 9.7000e-003   | 0.2572        | 2.9600e-003   | 0.2601        | 0.0740         | 2.8300e-003   | 0.0769        |          | 1,055.759<br>7         | 1,055.759<br>7         | 0.0690        |     | 1,057.484<br>8         |
| Worker       | 0.4546        | 0.2532        | 3.3072        | 0.0132        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,316.696<br>9         | 1,316.696<br>9         | 0.0272        |     | 1,317.375<br>5         |
| <b>Total</b> | <b>0.5286</b> | <b>3.1048</b> | <b>4.1241</b> | <b>0.0229</b> | <b>2.0454</b> | <b>0.0116</b> | <b>2.0570</b> | <b>0.5483</b>  | <b>0.0108</b> | <b>0.5590</b> |          | <b>2,372.456<br/>6</b> | <b>2,372.456<br/>6</b> | <b>0.0962</b> |     | <b>2,374.860<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2030****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0730        | 2.8227        | 0.8138        | 9.6600e-003   | 0.2572        | 2.9000e-003   | 0.2601        | 0.0740         | 2.7700e-003   | 0.0768        |          | 1,051.8763        | 1,051.8763        | 0.0686        |     | 1,053.5916        |
| Worker       | 0.4262        | 0.2373        | 3.1372        | 0.0129        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,283.9767        | 1,283.9767        | 0.0256        |     | 1,284.6175        |
| <b>Total</b> | <b>0.4992</b> | <b>3.0600</b> | <b>3.9510</b> | <b>0.0225</b> | <b>2.0454</b> | <b>0.0109</b> | <b>2.0563</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5584</b> |          | <b>2,335.8530</b> | <b>2,335.8530</b> | <b>0.0942</b> |     | <b>2,338.2092</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2030****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0730        | 2.8227        | 0.8138        | 9.6600e-003   | 0.2572        | 2.9000e-003   | 0.2601        | 0.0740         | 2.7700e-003   | 0.0768        |          | 1,051.8763        | 1,051.8763        | 0.0686        |     | 1,053.5916        |
| Worker       | 0.4262        | 0.2373        | 3.1372        | 0.0129        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,283.9767        | 1,283.9767        | 0.0256        |     | 1,284.6175        |
| <b>Total</b> | <b>0.4992</b> | <b>3.0600</b> | <b>3.9510</b> | <b>0.0225</b> | <b>2.0454</b> | <b>0.0109</b> | <b>2.0563</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5584</b> |          | <b>2,335.8530</b> | <b>2,335.8530</b> | <b>0.0942</b> |     | <b>2,338.2092</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0722        | 2.7977        | 0.8112        | 9.6200e-003   | 0.2572        | 2.8500e-003   | 0.2600        | 0.0740         | 2.7200e-003        | 0.0768        |          | 1,048.6160        | 1,048.6160        | 0.0683        |     | 1,050.3223        |
| Worker       | 0.3960        | 0.2224        | 2.9761        | 0.0126        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,255.3670        | 1,255.3670        | 0.0243        |     | 1,255.9738        |
| <b>Total</b> | <b>0.4682</b> | <b>3.0201</b> | <b>3.7872</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0103</b> | <b>2.0557</b> | <b>0.5483</b>  | <b>9.5800e-003</b> | <b>0.5578</b> |          | <b>2,303.9830</b> | <b>2,303.9830</b> | <b>0.0925</b> |     | <b>2,306.2960</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**3.6 Building Construction - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0722        | 2.7977        | 0.8112        | 9.6200e-003   | 0.2572        | 2.8500e-003   | 0.2600        | 0.0740         | 2.7200e-003        | 0.0768        |          | 1,048.6160        | 1,048.6160        | 0.0683        |     | 1,050.3223        |
| Worker       | 0.3960        | 0.2224        | 2.9761        | 0.0126        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,255.3670        | 1,255.3670        | 0.0243        |     | 1,255.9738        |
| <b>Total</b> | <b>0.4682</b> | <b>3.0201</b> | <b>3.7872</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0103</b> | <b>2.0557</b> | <b>0.5483</b>  | <b>9.5800e-003</b> | <b>0.5578</b> |          | <b>2,303.9830</b> | <b>2,303.9830</b> | <b>0.0925</b> |     | <b>2,306.2960</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 8 - M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 3.8229 | 19.5846 | 52.4066 | 0.2632 | 31.7937       | 0.0913       | 31.8850    | 8.4973         | 0.0851        | 8.5824      |          | 27,104.9982 | 27,104.9982 | 1.1893 |     | 27,134.7296 |
| Unmitigated | 3.8229 | 19.5846 | 52.4066 | 0.2632 | 31.7937       | 0.0913       | 31.8850    | 8.4973         | 0.0851        | 8.5824      |          | 27,104.9982 | 27,104.9982 | 1.1893 |     | 27,134.7296 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 3,890.00                | 4,049.49 | 3520.45  | 14,284,518  | 14,284,518 |
| Total                 | 3,890.00                | 4,049.49 | 3,520.45 | 14,284,518  | 14,284,518 |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 8 - M - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |
| NaturalGas Unmitigated | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |

## Desert Subregion 8 - M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39567.6        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</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/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39.5676        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 8 - M - San Diego County, Summer

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| Mitigated   | 17.8954 | 6.8216 | 34.6979 | 0.0429 |               | 0.6997       | 0.6997     |                | 0.6997        | 0.6997      | 0.0000   | 8,295.433<br>9 | 8,295.433<br>9 | 0.2129 | 0.1510 | 8,345.761<br>2 |
| Unmitigated | 17.8954 | 6.8216 | 34.6979 | 0.0429 |               | 0.6997       | 0.6997     |                | 0.6997        | 0.6997      | 0.0000   | 8,295.433<br>9 | 8,295.433<br>9 | 0.2129 | 0.1510 | 8,345.761<br>2 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 1.2004         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 14.9843        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.7551         | 6.4528        | 2.7459         | 0.0412        |               | 0.5217        | 0.5217        |                | 0.5217        | 0.5217        | 0.0000        | 8,237.647<br>1         | 8,237.647<br>1         | 0.1579        | 0.1510        | 8,286.599<br>3         |
| Landscaping           | 0.9557         | 0.3688        | 31.9520        | 1.6900e-003   |               | 0.1780        | 0.1780        |                | 0.1780        | 0.1780        |               | 57.7868                | 57.7868                | 0.0550        |               | 59.1619                |
| <b>Total</b>          | <b>17.8954</b> | <b>6.8216</b> | <b>34.6979</b> | <b>0.0429</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6997</b> | <b>0.6997</b> | <b>0.0000</b> | <b>8,295.433<br/>9</b> | <b>8,295.433<br/>9</b> | <b>0.2129</b> | <b>0.1510</b> | <b>8,345.761<br/>2</b> |

## Desert Subregion 8 - M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 1.2004         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 14.9843        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.7551         | 6.4528        | 2.7459         | 0.0412        |               | 0.5217        | 0.5217        |                | 0.5217        | 0.5217        | 0.0000        | 8,237.647<br>1         | 8,237.647<br>1         | 0.1579        | 0.1510        | 8,286.599<br>3         |
| Landscaping           | 0.9557         | 0.3688        | 31.9520        | 1.6900e-003   |               | 0.1780        | 0.1780        |                | 0.1780        | 0.1780        |               | 57.7868                | 57.7868                | 0.0550        |               | 59.1619                |
| <b>Total</b>          | <b>17.8954</b> | <b>6.8216</b> | <b>34.6979</b> | <b>0.0429</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6997</b> | <b>0.6997</b> | <b>0.0000</b> | <b>8,295.433<br/>9</b> | <b>8,295.433<br/>9</b> | <b>0.2129</b> | <b>0.1510</b> | <b>8,345.761<br/>2</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 8 - M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 8 - UM - San Diego County, Winter

## Desert Subregion 8 - UM

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 389.00 | Dwelling Unit | 126.30      | 700,200.00         | 1113       |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 15                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 8 - UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/18/2033 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 7/11/2031 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/23/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/14/2032 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/15/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/15/2032 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 8/24/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/16/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 7/12/2031 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Desert Subregion 8 - UM - San Diego County, Winter

## **2.1 Overall Construction (Maximum Daily Emission)**

### **Unmitigated Construction**

## Desert Subregion 8 - UM - San Diego County, Winter

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 4.8647  | 54.6115 | 34.2189 | 0.0645      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,391.585<br>0 | 6,391.585<br>0 | 1.9505 | 0.0000 | 6,440.346<br>7 |
| 2020    | 3.1005  | 24.2837 | 23.5210 | 0.0544      | 2.0454        | 1.1507       | 3.1960     | 0.5483         | 1.0821        | 1.6303      | 0.0000   | 5,367.774<br>1 | 5,367.774<br>1 | 0.7648 | 0.0000 | 5,386.894<br>5 |
| 2021    | 2.8086  | 22.0475 | 22.7762 | 0.0537      | 2.0454        | 0.9791       | 3.0245     | 0.5483         | 0.9204        | 1.4687      | 0.0000   | 5,300.478<br>5 | 5,300.478<br>5 | 0.7503 | 0.0000 | 5,319.236<br>4 |
| 2022    | 2.5657  | 19.9646 | 22.1428 | 0.0530      | 2.0454        | 0.8280       | 2.8734     | 0.5483         | 0.7789        | 1.3272      | 0.0000   | 5,230.490<br>2 | 5,230.490<br>2 | 0.7394 | 0.0000 | 5,248.976<br>2 |
| 2023    | 2.3694  | 17.8894 | 21.5773 | 0.0521      | 2.0454        | 0.7148       | 2.7602     | 0.5483         | 0.6724        | 1.2207      | 0.0000   | 5,143.249<br>3 | 5,143.249<br>3 | 0.7237 | 0.0000 | 5,161.342<br>4 |
| 2024    | 2.2328  | 16.8707 | 21.1819 | 0.0514      | 2.0454        | 0.6280       | 2.6734     | 0.5483         | 0.5906        | 1.1388      | 0.0000   | 5,076.832<br>9 | 5,076.832<br>9 | 0.7160 | 0.0000 | 5,094.732<br>5 |
| 2025    | 2.0980  | 15.8229 | 20.8098 | 0.0508      | 2.0454        | 0.5420       | 2.5874     | 0.5483         | 0.5096        | 1.0579      | 0.0000   | 5,011.856<br>6 | 5,011.856<br>6 | 0.7089 | 0.0000 | 5,029.578<br>4 |
| 2026    | 2.0713  | 15.7561 | 20.5679 | 0.0502      | 2.0454        | 0.5415       | 2.5869     | 0.5483         | 0.5092        | 1.0575      | 0.0000   | 4,954.290<br>4 | 4,954.290<br>4 | 0.7057 | 0.0000 | 4,971.933<br>1 |
| 2027    | 2.0445  | 15.6939 | 20.3541 | 0.0496      | 2.0454        | 0.5408       | 2.5862     | 0.5483         | 0.5086        | 1.0569      | 0.0000   | 4,903.357<br>5 | 4,903.357<br>5 | 0.7030 | 0.0000 | 4,920.931<br>5 |
| 2028    | 2.0159  | 15.6408 | 20.1722 | 0.0492      | 2.0454        | 0.5400       | 2.5854     | 0.5483         | 0.5078        | 1.0561      | 0.0000   | 4,858.900<br>0 | 4,858.900<br>0 | 0.7006 | 0.0000 | 4,876.414<br>5 |
| 2029    | 1.9846  | 15.5883 | 19.9981 | 0.0488      | 2.0454        | 0.5393       | 2.5846     | 0.5483         | 0.5071        | 1.0554      | 0.0000   | 4,819.357<br>9 | 4,819.357<br>9 | 0.6985 | 0.0000 | 4,836.820<br>4 |
| 2030    | 1.8921  | 11.0065 | 19.9081 | 0.0524      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1584        | 0.7066      | 0.0000   | 5,125.963<br>6 | 5,125.963<br>6 | 0.2119 | 0.0000 | 5,131.260<br>7 |
| 2031    | 1.8557  | 10.9650 | 19.7542 | 0.0521      | 2.0454        | 0.3314       | 2.2039     | 0.5483         | 0.3314        | 0.7061      | 0.0000   | 5,095.933<br>9 | 5,095.933<br>9 | 0.2102 | 0.0000 | 5,101.187<br>9 |
| 2032    | 20.1337 | 7.1454  | 16.1258 | 0.0293      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,780.206<br>4 | 2,780.206<br>4 | 0.1268 | 0.0000 | 2,783.377<br>3 |
| 2033    | 20.1282 | 0.9009  | 2.2911  | 5.2400e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 508.3101       | 508.3101       | 0.0155 | 0.0000 | 508.6977       |
| Maximum | 20.1337 | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

Desert Subregion 8 - UM - San Diego County, Winter

## **2.1 Overall Construction (Maximum Daily Emission)**

### **Mitigated Construction**

## Desert Subregion 8 - UM - San Diego County, Winter

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 4.8647  | 54.6115 | 34.2189 | 0.0645      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,391.585<br>0 | 6,391.585<br>0 | 1.9505 | 0.0000 | 6,440.346<br>7 |
| 2020    | 3.1005  | 24.2837 | 23.5210 | 0.0544      | 2.0454        | 1.1507       | 3.1960     | 0.5483         | 1.0821        | 1.6303      | 0.0000   | 5,367.774<br>1 | 5,367.774<br>1 | 0.7648 | 0.0000 | 5,386.894<br>5 |
| 2021    | 2.8086  | 22.0475 | 22.7762 | 0.0537      | 2.0454        | 0.9791       | 3.0245     | 0.5483         | 0.9204        | 1.4687      | 0.0000   | 5,300.478<br>5 | 5,300.478<br>5 | 0.7503 | 0.0000 | 5,319.236<br>4 |
| 2022    | 2.5657  | 19.9646 | 22.1428 | 0.0530      | 2.0454        | 0.8280       | 2.8734     | 0.5483         | 0.7789        | 1.3272      | 0.0000   | 5,230.490<br>2 | 5,230.490<br>2 | 0.7394 | 0.0000 | 5,248.976<br>2 |
| 2023    | 2.3694  | 17.8894 | 21.5773 | 0.0521      | 2.0454        | 0.7148       | 2.7602     | 0.5483         | 0.6724        | 1.2207      | 0.0000   | 5,143.249<br>3 | 5,143.249<br>3 | 0.7237 | 0.0000 | 5,161.342<br>4 |
| 2024    | 2.2328  | 16.8707 | 21.1819 | 0.0514      | 2.0454        | 0.6280       | 2.6734     | 0.5483         | 0.5906        | 1.1388      | 0.0000   | 5,076.832<br>9 | 5,076.832<br>9 | 0.7160 | 0.0000 | 5,094.732<br>5 |
| 2025    | 2.0980  | 15.8229 | 20.8098 | 0.0508      | 2.0454        | 0.5420       | 2.5874     | 0.5483         | 0.5096        | 1.0579      | 0.0000   | 5,011.856<br>6 | 5,011.856<br>6 | 0.7089 | 0.0000 | 5,029.578<br>4 |
| 2026    | 2.0713  | 15.7561 | 20.5679 | 0.0502      | 2.0454        | 0.5415       | 2.5869     | 0.5483         | 0.5092        | 1.0575      | 0.0000   | 4,954.290<br>4 | 4,954.290<br>4 | 0.7057 | 0.0000 | 4,971.933<br>1 |
| 2027    | 2.0445  | 15.6939 | 20.3541 | 0.0496      | 2.0454        | 0.5408       | 2.5862     | 0.5483         | 0.5086        | 1.0569      | 0.0000   | 4,903.357<br>5 | 4,903.357<br>5 | 0.7030 | 0.0000 | 4,920.931<br>5 |
| 2028    | 2.0159  | 15.6408 | 20.1722 | 0.0492      | 2.0454        | 0.5400       | 2.5854     | 0.5483         | 0.5078        | 1.0561      | 0.0000   | 4,858.900<br>0 | 4,858.900<br>0 | 0.7006 | 0.0000 | 4,876.414<br>5 |
| 2029    | 1.9846  | 15.5883 | 19.9981 | 0.0488      | 2.0454        | 0.5393       | 2.5846     | 0.5483         | 0.5071        | 1.0554      | 0.0000   | 4,819.357<br>9 | 4,819.357<br>9 | 0.6985 | 0.0000 | 4,836.820<br>4 |
| 2030    | 1.8921  | 11.0065 | 19.9081 | 0.0524      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1584        | 0.7066      | 0.0000   | 5,125.963<br>6 | 5,125.963<br>6 | 0.2119 | 0.0000 | 5,131.260<br>7 |
| 2031    | 1.8557  | 10.9650 | 19.7542 | 0.0521      | 2.0454        | 0.3314       | 2.2039     | 0.5483         | 0.3314        | 0.7061      | 0.0000   | 5,095.933<br>9 | 5,095.933<br>9 | 0.2102 | 0.0000 | 5,101.187<br>9 |
| 2032    | 20.1337 | 7.1454  | 16.1258 | 0.0293      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,780.206<br>4 | 2,780.206<br>4 | 0.1268 | 0.0000 | 2,783.377<br>3 |
| 2033    | 20.1282 | 0.9009  | 2.2911  | 5.2400e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 508.3101       | 508.3101       | 0.0155 | 0.0000 | 508.6977       |
| Maximum | 20.1337 | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

## Desert Subregion 8 - UM - San Diego County, Winter

[illegible]

## Desert Subregion 8 - UM - San Diego County, Winter

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

|              | ROG             | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|-----------------|----------------|-----------------|---------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | lb/day          |                |                 |               |                |                 |                 |                |                 |                 | lb/day             |                    |                    |                |               |                    |
| Area         | 612.4639        | 11.9948        | 766.8144        | 1.3331        |                | 103.2127        | 103.2127        |                | 103.2127        | 103.2127        | 10,803.2033        | 4,588.4927         | 15,391.6960        | 10.0246        | 0.8498        | 15,895.5367        |
| Energy       | 0.4267          | 3.6464         | 1.5517          | 0.0233        |                | 0.2948          | 0.2948          |                | 0.2948          | 0.2948          |                    | 4,655.0104         | 4,655.0104         | 0.0892         | 0.0853        | 4,682.6728         |
| Mobile       | 3.7451          | 19.9417        | 50.5842         | 0.2506        | 31.7937        | 0.0915          | 31.8851         | 8.4973         | 0.0852          | 8.5825          |                    | 25,834.0082        | 25,834.0082        | 1.1921         |               | 25,863.8113        |
| <b>Total</b> | <b>616.6358</b> | <b>35.5829</b> | <b>818.9503</b> | <b>1.6070</b> | <b>31.7937</b> | <b>103.5990</b> | <b>135.3926</b> | <b>8.4973</b>  | <b>103.5927</b> | <b>112.0900</b> | <b>10,803.2033</b> | <b>35,077.5113</b> | <b>45,880.7145</b> | <b>11.3059</b> | <b>0.9351</b> | <b>46,442.0208</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     | lb/day          |                |                 |               |                |                 |                 |                |                 |                 | lb/day             |                    |                    |                |               |                    |
| Area         | 612.4639        | 11.9948        | 766.8144        | 1.3331        |                | 103.2127        | 103.2127        |                | 103.2127        | 103.2127        | 10,803.2033        | 4,588.4927         | 15,391.6960        | 10.0246        | 0.8498        | 15,895.5367        |
| Energy       | 0.4267          | 3.6464         | 1.5517          | 0.0233        |                | 0.2948          | 0.2948          |                | 0.2948          | 0.2948          |                    | 4,655.0104         | 4,655.0104         | 0.0892         | 0.0853        | 4,682.6728         |
| Mobile       | 3.7451          | 19.9417        | 50.5842         | 0.2506        | 31.7937        | 0.0915          | 31.8851         | 8.4973         | 0.0852          | 8.5825          |                    | 25,834.0082        | 25,834.0082        | 1.1921         |               | 25,863.8113        |
| <b>Total</b> | <b>616.6358</b> | <b>35.5829</b> | <b>818.9503</b> | <b>1.6070</b> | <b>31.7937</b> | <b>103.5990</b> | <b>135.3926</b> | <b>8.4973</b>  | <b>103.5927</b> | <b>112.0900</b> | <b>10,803.2033</b> | <b>35,077.5113</b> | <b>45,880.7145</b> | <b>11.3059</b> | <b>0.9351</b> | <b>46,442.0208</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 6/15/2018 | 5             | 120      |                   |
| 2            | Architectural Coating | Architectural Coating | 5/15/2032  | 3/18/2033 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 6/16/2018  | 8/23/2019 | 5             | 310      |                   |
| 4            | Paving                | Paving                | 7/12/2031  | 5/14/2032 | 5             | 220      |                   |
| 5            | Building Construction | Building Construction | 8/24/2019  | 7/11/2031 | 5             | 3100     |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 1,417,905; Residential Outdoor: 472,635; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 8 - UM - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 28.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 140.00             | 42.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 8 - UM - San Diego County, Winter

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.3 Architectural Coating - 2032****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0878        | 0.0470        | 0.5157        | 2.3100e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 230.8874        | 230.8874        | 4.2900e-003        |     | 230.9947        |
| <b>Total</b> | <b>0.0878</b> | <b>0.0470</b> | <b>0.5157</b> | <b>2.3100e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>230.8874</b> | <b>230.8874</b> | <b>4.2900e-003</b> |     | <b>230.9947</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.3 Architectural Coating - 2032****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0878        | 0.0470        | 0.5157        | 2.3100e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 230.8874        | 230.8874        | 4.2900e-003        |     | 230.9947        |
| <b>Total</b> | <b>0.0878</b> | <b>0.0470</b> | <b>0.5157</b> | <b>2.3100e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>230.8874</b> | <b>230.8874</b> | <b>4.2900e-003</b> |     | <b>230.9947</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.3 Architectural Coating - 2033****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0823        | 0.0446        | 0.4934        | 2.2700e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 226.8620        | 226.8620        | 4.1100e-003        |     | 226.9649        |
| <b>Total</b> | <b>0.0823</b> | <b>0.0446</b> | <b>0.4934</b> | <b>2.2700e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>226.8620</b> | <b>226.8620</b> | <b>4.1100e-003</b> |     | <b>226.9649</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.3 Architectural Coating - 2033****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0823        | 0.0446        | 0.4934        | 2.2700e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 226.8620        | 226.8620        | 4.1100e-003        |     | 226.9649        |
| <b>Total</b> | <b>0.0823</b> | <b>0.0446</b> | <b>0.4934</b> | <b>2.2700e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>226.8620</b> | <b>226.8620</b> | <b>4.1100e-003</b> |     | <b>226.9649</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.4 Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        |          | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> |          | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1258        | 0.0913        | 0.8421        | 2.5200e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 251.5655        | 251.5655        | 7.8300e-003        |     | 251.7613        |
| <b>Total</b> | <b>0.1258</b> | <b>0.0913</b> | <b>0.8421</b> | <b>2.5200e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>251.5655</b> | <b>251.5655</b> | <b>7.8300e-003</b> |     | <b>251.7613</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.4 Grading - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        | 0.0000        | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> | <b>0.0000</b> | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1258        | 0.0913        | 0.8421        | 2.5200e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 251.5655        | 251.5655        | 7.8300e-003        |     | 251.7613        |
| <b>Total</b> | <b>0.1258</b> | <b>0.0913</b> | <b>0.8421</b> | <b>2.5200e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>251.5655</b> | <b>251.5655</b> | <b>7.8300e-003</b> |     | <b>251.7613</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.5 Paving - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0504        | 0.0267        | 0.2901        | 1.2600e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 126.1944        | 126.1944        | 2.4100e-003        |     | 126.2547        |
| <b>Total</b> | <b>0.0504</b> | <b>0.0267</b> | <b>0.2901</b> | <b>1.2600e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>126.1944</b> | <b>126.1944</b> | <b>2.4100e-003</b> |     | <b>126.2547</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.5 Paving - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0504        | 0.0267        | 0.2901        | 1.2600e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 126.1944        | 126.1944        | 2.4100e-003        |     | 126.2547        |
| <b>Total</b> | <b>0.0504</b> | <b>0.0267</b> | <b>0.2901</b> | <b>1.2600e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>126.1944</b> | <b>126.1944</b> | <b>2.4100e-003</b> |     | <b>126.2547</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.5 Paving - 2032****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0470        | 0.0252        | 0.2763        | 1.2400e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 123.6897        | 123.6897        | 2.3000e-003        |     | 123.7472        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0252</b> | <b>0.2763</b> | <b>1.2400e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>123.6897</b> | <b>123.6897</b> | <b>2.3000e-003</b> |     | <b>123.7472</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.5 Paving - 2032****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0470        | 0.0252        | 0.2763        | 1.2400e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 123.6897        | 123.6897        | 2.3000e-003        |     | 123.7472        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0252</b> | <b>0.2763</b> | <b>1.2400e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>123.6897</b> | <b>123.6897</b> | <b>2.3000e-003</b> |     | <b>123.7472</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1895        | 4.9622        | 1.4248        | 0.0104        | 0.2572        | 0.0336        | 0.2908        | 0.0740         | 0.0322        | 0.1062        |          | 1,117.055<br>0         | 1,117.055<br>0         | 0.0976        |     | 1,119.494<br>8         |
| Worker       | 0.8807        | 0.6393        | 5.8948        | 0.0177        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,760.958<br>5         | 1,760.958<br>5         | 0.0548        |     | 1,762.329<br>2         |
| <b>Total</b> | <b>1.0702</b> | <b>5.6015</b> | <b>7.3196</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0459</b> | <b>2.0913</b> | <b>0.5483</b>  | <b>0.0435</b> | <b>0.5917</b> |          | <b>2,878.013<br/>6</b> | <b>2,878.013<br/>6</b> | <b>0.1524</b> |     | <b>2,881.824<br/>0</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1895        | 4.9622        | 1.4248        | 0.0104        | 0.2572        | 0.0336        | 0.2908        | 0.0740         | 0.0322        | 0.1062        |          | 1,117.055<br>0         | 1,117.055<br>0         | 0.0976        |     | 1,119.494<br>8         |
| Worker       | 0.8807        | 0.6393        | 5.8948        | 0.0177        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,760.958<br>5         | 1,760.958<br>5         | 0.0548        |     | 1,762.329<br>2         |
| <b>Total</b> | <b>1.0702</b> | <b>5.6015</b> | <b>7.3196</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0459</b> | <b>2.0913</b> | <b>0.5483</b>  | <b>0.0435</b> | <b>0.5917</b> |          | <b>2,878.013<br/>6</b> | <b>2,878.013<br/>6</b> | <b>0.1524</b> |     | <b>2,881.824<br/>0</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1550        | 4.5205        | 1.2808        | 0.0103        | 0.2572        | 0.0215        | 0.2787        | 0.0740         | 0.0206        | 0.0946        |          | 1,109.385<br>1         | 1,109.385<br>1         | 0.0924        |     | 1,111.694<br>9         |
| Worker       | 0.8257        | 0.5772        | 5.3917        | 0.0171        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,705.325<br>9         | 1,705.325<br>9         | 0.0496        |     | 1,706.565<br>2         |
| <b>Total</b> | <b>0.9807</b> | <b>5.0976</b> | <b>6.6725</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0336</b> | <b>2.0790</b> | <b>0.5483</b>  | <b>0.0317</b> | <b>0.5800</b> |          | <b>2,814.711<br/>0</b> | <b>2,814.711<br/>0</b> | <b>0.1420</b> |     | <b>2,818.260<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1550        | 4.5205        | 1.2808        | 0.0103        | 0.2572        | 0.0215        | 0.2787        | 0.0740         | 0.0206        | 0.0946        |          | 1,109.385<br>1         | 1,109.385<br>1         | 0.0924        |     | 1,111.694<br>9         |
| Worker       | 0.8257        | 0.5772        | 5.3917        | 0.0171        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,705.325<br>9         | 1,705.325<br>9         | 0.0496        |     | 1,706.565<br>2         |
| <b>Total</b> | <b>0.9807</b> | <b>5.0976</b> | <b>6.6725</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0336</b> | <b>2.0790</b> | <b>0.5483</b>  | <b>0.0317</b> | <b>0.5800</b> |          | <b>2,814.711<br/>0</b> | <b>2,814.711<br/>0</b> | <b>0.1420</b> |     | <b>2,818.260<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1269        | 4.0904        | 1.1620        | 0.0102        | 0.2572        | 8.5900e-003   | 0.2658        | 0.0740         | 8.2100e-003   | 0.0823        |          | 1,099.134<br>3         | 1,099.134<br>3         | 0.0885        |     | 1,101.347<br>8         |
| Worker       | 0.7808        | 0.5250        | 5.0390        | 0.0165        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,647.980<br>3         | 1,647.980<br>3         | 0.0458        |     | 1,649.124<br>4         |
| <b>Total</b> | <b>0.9077</b> | <b>4.6154</b> | <b>6.2010</b> | <b>0.0268</b> | <b>2.0454</b> | <b>0.0205</b> | <b>2.0659</b> | <b>0.5483</b>  | <b>0.0192</b> | <b>0.5674</b> |          | <b>2,747.114<br/>6</b> | <b>2,747.114<br/>6</b> | <b>0.1343</b> |     | <b>2,750.472<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1269        | 4.0904        | 1.1620        | 0.0102        | 0.2572        | 8.5900e-003   | 0.2658        | 0.0740         | 8.2100e-003   | 0.0823        |          | 1,099.134<br>3         | 1,099.134<br>3         | 0.0885        |     | 1,101.347<br>8         |
| Worker       | 0.7808        | 0.5250        | 5.0390        | 0.0165        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,647.980<br>3         | 1,647.980<br>3         | 0.0458        |     | 1,649.124<br>4         |
| <b>Total</b> | <b>0.9077</b> | <b>4.6154</b> | <b>6.2010</b> | <b>0.0268</b> | <b>2.0454</b> | <b>0.0205</b> | <b>2.0659</b> | <b>0.5483</b>  | <b>0.0192</b> | <b>0.5674</b> |          | <b>2,747.114<br/>6</b> | <b>2,747.114<br/>6</b> | <b>0.1343</b> |     | <b>2,750.472<br/>1</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2022****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        |          | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1180        | 3.8700        | 1.0989        | 0.0101        | 0.2572        | 7.4000e-003   | 0.2646        | 0.0740         | 7.0800e-003   | 0.0811        |          | 1,088.6274        | 1,088.6274        | 0.0856        |     | 1,090.7666        |
| Worker       | 0.7415        | 0.4790        | 4.6805        | 0.0159        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,587.5293        | 1,587.5293        | 0.0419        |     | 1,588.5773        |
| <b>Total</b> | <b>0.8594</b> | <b>4.3490</b> | <b>5.7794</b> | <b>0.0260</b> | <b>2.0454</b> | <b>0.0190</b> | <b>2.0644</b> | <b>0.5483</b>  | <b>0.0178</b> | <b>0.5660</b> |          | <b>2,676.1566</b> | <b>2,676.1566</b> | <b>0.1275</b> |     | <b>2,679.3440</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2022****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1180        | 3.8700        | 1.0989        | 0.0101        | 0.2572        | 7.4000e-003   | 0.2646        | 0.0740         | 7.0800e-003   | 0.0811        |          | 1,088.6274        | 1,088.6274        | 0.0856        |     | 1,090.7666        |
| Worker       | 0.7415        | 0.4790        | 4.6805        | 0.0159        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,587.5293        | 1,587.5293        | 0.0419        |     | 1,588.5773        |
| <b>Total</b> | <b>0.8594</b> | <b>4.3490</b> | <b>5.7794</b> | <b>0.0260</b> | <b>2.0454</b> | <b>0.0190</b> | <b>2.0644</b> | <b>0.5483</b>  | <b>0.0178</b> | <b>0.5660</b> |          | <b>2,676.1566</b> | <b>2,676.1566</b> | <b>0.1275</b> |     | <b>2,679.3440</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2023****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0912        | 3.0669        | 0.9913        | 9.8300e-003   | 0.2572        | 3.6500e-003   | 0.2608        | 0.0740         | 3.4900e-003   | 0.0775        |          | 1,061.1854        | 1,061.1854        | 0.0775        |     | 1,063.1240        |
| Worker       | 0.7054        | 0.4376        | 4.3420        | 0.0153        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,526.8540        | 1,526.8540        | 0.0383        |     | 1,527.8124        |
| <b>Total</b> | <b>0.7966</b> | <b>3.5045</b> | <b>5.3333</b> | <b>0.0251</b> | <b>2.0454</b> | <b>0.0150</b> | <b>2.0604</b> | <b>0.5483</b>  | <b>0.0140</b> | <b>0.5622</b> |          | <b>2,588.0393</b> | <b>2,588.0393</b> | <b>0.1159</b> |     | <b>2,590.9364</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2023****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0912        | 3.0669        | 0.9913        | 9.8300e-003   | 0.2572        | 3.6500e-003   | 0.2608        | 0.0740         | 3.4900e-003   | 0.0775        |          | 1,061.1854        | 1,061.1854        | 0.0775        |     | 1,063.1240        |
| Worker       | 0.7054        | 0.4376        | 4.3420        | 0.0153        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,526.8540        | 1,526.8540        | 0.0383        |     | 1,527.8124        |
| <b>Total</b> | <b>0.7966</b> | <b>3.5045</b> | <b>5.3333</b> | <b>0.0251</b> | <b>2.0454</b> | <b>0.0150</b> | <b>2.0604</b> | <b>0.5483</b>  | <b>0.0140</b> | <b>0.5622</b> |          | <b>2,588.0393</b> | <b>2,588.0393</b> | <b>0.1159</b> |     | <b>2,590.9364</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        |          | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> |          | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0878        | 3.0253        | 0.9585        | 9.7500e-003   | 0.2572        | 3.5400e-003   | 0.2607        | 0.0740         | 3.3800e-003   | 0.0774        |          | 1,054.4194        | 1,054.4194        | 0.0764        |     | 1,056.3298        |
| Worker       | 0.6734        | 0.4016        | 4.0565        | 0.0147        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,466.7146        | 1,466.7146        | 0.0352        |     | 1,467.5951        |
| <b>Total</b> | <b>0.7613</b> | <b>3.4269</b> | <b>5.0150</b> | <b>0.0245</b> | <b>2.0454</b> | <b>0.0147</b> | <b>2.0601</b> | <b>0.5483</b>  | <b>0.0137</b> | <b>0.5619</b> |          | <b>2,521.1340</b> | <b>2,521.1340</b> | <b>0.1116</b> |     | <b>2,523.9249</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2024****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        | 0.0000        | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> | <b>0.0000</b> | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0878        | 3.0253        | 0.9585        | 9.7500e-003   | 0.2572        | 3.5400e-003   | 0.2607        | 0.0740         | 3.3800e-003   | 0.0774        |          | 1,054.4194        | 1,054.4194        | 0.0764        |     | 1,056.3298        |
| Worker       | 0.6734        | 0.4016        | 4.0565        | 0.0147        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,466.7146        | 1,466.7146        | 0.0352        |     | 1,467.5951        |
| <b>Total</b> | <b>0.7613</b> | <b>3.4269</b> | <b>5.0150</b> | <b>0.0245</b> | <b>2.0454</b> | <b>0.0147</b> | <b>2.0601</b> | <b>0.5483</b>  | <b>0.0137</b> | <b>0.5619</b> |          | <b>2,521.1340</b> | <b>2,521.1340</b> | <b>0.1116</b> |     | <b>2,523.9249</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2025****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0851        | 2.9827        | 0.9379        | 9.6800e-003   | 0.2572        | 3.4200e-003   | 0.2606        | 0.0740         | 3.2700e-003   | 0.0773        |          | 1,047.987<br>1         | 1,047.987<br>1         | 0.0754        |     | 1,049.872<br>4         |
| Worker       | 0.6454        | 0.3705        | 3.7872        | 0.0141        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,407.395<br>2         | 1,407.395<br>2         | 0.0325        |     | 1,408.208<br>0         |
| <b>Total</b> | <b>0.7306</b> | <b>3.3532</b> | <b>4.7251</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0144</b> | <b>2.0598</b> | <b>0.5483</b>  | <b>0.0134</b> | <b>0.5617</b> |          | <b>2,455.382<br/>2</b> | <b>2,455.382<br/>2</b> | <b>0.1079</b> |     | <b>2,458.080<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2025****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0851        | 2.9827        | 0.9379        | 9.6800e-003   | 0.2572        | 3.4200e-003   | 0.2606        | 0.0740         | 3.2700e-003   | 0.0773        |          | 1,047.987<br>1         | 1,047.987<br>1         | 0.0754        |     | 1,049.872<br>4         |
| Worker       | 0.6454        | 0.3705        | 3.7872        | 0.0141        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,407.395<br>2         | 1,407.395<br>2         | 0.0325        |     | 1,408.208<br>0         |
| <b>Total</b> | <b>0.7306</b> | <b>3.3532</b> | <b>4.7251</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0144</b> | <b>2.0598</b> | <b>0.5483</b>  | <b>0.0134</b> | <b>0.5617</b> |          | <b>2,455.382<br/>2</b> | <b>2,455.382<br/>2</b> | <b>0.1079</b> |     | <b>2,458.080<br/>3</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2026****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0829        | 2.9415        | 0.9234        | 9.6100e-003   | 0.2572        | 3.3000e-003   | 0.2605        | 0.0740         | 3.1600e-003   | 0.0772        |          | 1,041.970<br>8         | 1,041.970<br>8         | 0.0745        |     | 1,043.832<br>4         |
| Worker       | 0.6210        | 0.3449        | 3.5599        | 0.0136        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,355.845<br>2         | 1,355.845<br>2         | 0.0303        |     | 1,356.602<br>6         |
| <b>Total</b> | <b>0.7039</b> | <b>3.2864</b> | <b>4.4833</b> | <b>0.0232</b> | <b>2.0454</b> | <b>0.0140</b> | <b>2.0593</b> | <b>0.5483</b>  | <b>0.0130</b> | <b>0.5612</b> |          | <b>2,397.816<br/>0</b> | <b>2,397.816<br/>0</b> | <b>0.1048</b> |     | <b>2,400.435<br/>0</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2026****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0829        | 2.9415        | 0.9234        | 9.6100e-003   | 0.2572        | 3.3000e-003   | 0.2605        | 0.0740         | 3.1600e-003   | 0.0772        |          | 1,041.970<br>8         | 1,041.970<br>8         | 0.0745        |     | 1,043.832<br>4         |
| Worker       | 0.6210        | 0.3449        | 3.5599        | 0.0136        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,355.845<br>2         | 1,355.845<br>2         | 0.0303        |     | 1,356.602<br>6         |
| <b>Total</b> | <b>0.7039</b> | <b>3.2864</b> | <b>4.4833</b> | <b>0.0232</b> | <b>2.0454</b> | <b>0.0140</b> | <b>2.0593</b> | <b>0.5483</b>  | <b>0.0130</b> | <b>0.5612</b> |          | <b>2,397.816<br/>0</b> | <b>2,397.816<br/>0</b> | <b>0.1048</b> |     | <b>2,400.435<br/>0</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2027****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0810        | 2.9021        | 0.9111        | 9.5500e-003   | 0.2572        | 3.2200e-003   | 0.2604        | 0.0740         | 3.0700e-003   | 0.0771        |          | 1,036.458<br>5         | 1,036.458<br>5         | 0.0737        |     | 1,038.299<br>7         |
| Worker       | 0.5961        | 0.3221        | 3.3583        | 0.0131        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,310.424<br>6         | 1,310.424<br>6         | 0.0284        |     | 1,311.133<br>7         |
| <b>Total</b> | <b>0.6771</b> | <b>3.2242</b> | <b>4.2694</b> | <b>0.0227</b> | <b>2.0454</b> | <b>0.0133</b> | <b>2.0587</b> | <b>0.5483</b>  | <b>0.0123</b> | <b>0.5606</b> |          | <b>2,346.883<br/>1</b> | <b>2,346.883<br/>1</b> | <b>0.1020</b> |     | <b>2,349.433<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2027****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0810        | 2.9021        | 0.9111        | 9.5500e-003   | 0.2572        | 3.2200e-003   | 0.2604        | 0.0740         | 3.0700e-003   | 0.0771        |          | 1,036.458<br>5         | 1,036.458<br>5         | 0.0737        |     | 1,038.299<br>7         |
| Worker       | 0.5961        | 0.3221        | 3.3583        | 0.0131        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,310.424<br>6         | 1,310.424<br>6         | 0.0284        |     | 1,311.133<br>7         |
| <b>Total</b> | <b>0.6771</b> | <b>3.2242</b> | <b>4.2694</b> | <b>0.0227</b> | <b>2.0454</b> | <b>0.0133</b> | <b>2.0587</b> | <b>0.5483</b>  | <b>0.0123</b> | <b>0.5606</b> |          | <b>2,346.883<br/>1</b> | <b>2,346.883<br/>1</b> | <b>0.1020</b> |     | <b>2,349.433<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2028****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0795        | 2.8691        | 0.9044        | 9.5000e-003   | 0.2572        | 3.1400e-003   | 0.2603        | 0.0740         | 3.0000e-003   | 0.0770        |          | 1,031.848<br>6         | 1,031.848<br>6         | 0.0729        |     | 1,033.670<br>9         |
| Worker       | 0.5690        | 0.3020        | 3.1831        | 0.0127        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,270.577<br>1         | 1,270.577<br>1         | 0.0267        |     | 1,271.245<br>6         |
| <b>Total</b> | <b>0.6485</b> | <b>3.1711</b> | <b>4.0875</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0125</b> | <b>2.0578</b> | <b>0.5483</b>  | <b>0.0116</b> | <b>0.5598</b> |          | <b>2,302.425<br/>7</b> | <b>2,302.425<br/>7</b> | <b>0.0996</b> |     | <b>2,304.916<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2028****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0795        | 2.8691        | 0.9044        | 9.5000e-003   | 0.2572        | 3.1400e-003   | 0.2603        | 0.0740         | 3.0000e-003   | 0.0770        |          | 1,031.848<br>6         | 1,031.848<br>6         | 0.0729        |     | 1,033.670<br>9         |
| Worker       | 0.5690        | 0.3020        | 3.1831        | 0.0127        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,270.577<br>1         | 1,270.577<br>1         | 0.0267        |     | 1,271.245<br>6         |
| <b>Total</b> | <b>0.6485</b> | <b>3.1711</b> | <b>4.0875</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0125</b> | <b>2.0578</b> | <b>0.5483</b>  | <b>0.0116</b> | <b>0.5598</b> |          | <b>2,302.425<br/>7</b> | <b>2,302.425<br/>7</b> | <b>0.0996</b> |     | <b>2,304.916<br/>5</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2029****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0781        | 2.8351        | 0.8971        | 9.4500e-003   | 0.2572        | 3.0500e-003   | 0.2602        | 0.0740         | 2.9200e-003   | 0.0770        |          | 1,027.332<br>8         | 1,027.332<br>8         | 0.0723        |     | 1,029.141<br>0         |
| Worker       | 0.5391        | 0.2835        | 3.0164        | 0.0124        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,235.550<br>7         | 1,235.550<br>7         | 0.0252        |     | 1,236.181<br>4         |
| <b>Total</b> | <b>0.6172</b> | <b>3.1186</b> | <b>3.9135</b> | <b>0.0218</b> | <b>2.0454</b> | <b>0.0117</b> | <b>2.0571</b> | <b>0.5483</b>  | <b>0.0109</b> | <b>0.5591</b> |          | <b>2,262.883<br/>5</b> | <b>2,262.883<br/>5</b> | <b>0.0976</b> |     | <b>2,265.322<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2029****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0781        | 2.8351        | 0.8971        | 9.4500e-003   | 0.2572        | 3.0500e-003   | 0.2602        | 0.0740         | 2.9200e-003   | 0.0770        |          | 1,027.332<br>8         | 1,027.332<br>8         | 0.0723        |     | 1,029.141<br>0         |
| Worker       | 0.5391        | 0.2835        | 3.0164        | 0.0124        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,235.550<br>7         | 1,235.550<br>7         | 0.0252        |     | 1,236.181<br>4         |
| <b>Total</b> | <b>0.6172</b> | <b>3.1186</b> | <b>3.9135</b> | <b>0.0218</b> | <b>2.0454</b> | <b>0.0117</b> | <b>2.0571</b> | <b>0.5483</b>  | <b>0.0109</b> | <b>0.5591</b> |          | <b>2,262.883<br/>5</b> | <b>2,262.883<br/>5</b> | <b>0.0976</b> |     | <b>2,265.322<br/>4</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2030****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0770        | 2.8064        | 0.8931        | 9.4000e-003   | 0.2572        | 2.9800e-003   | 0.2601        | 0.0740         | 2.8500e-003   | 0.0769        |          | 1,023.6593        | 1,023.6593        | 0.0718        |     | 1,025.4552        |
| Worker       | 0.5060        | 0.2656        | 2.8580        | 0.0121        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,204.7575        | 1,204.7575        | 0.0238        |     | 1,205.3526        |
| <b>Total</b> | <b>0.5830</b> | <b>3.0719</b> | <b>3.7511</b> | <b>0.0215</b> | <b>2.0454</b> | <b>0.0110</b> | <b>2.0564</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5585</b> |          | <b>2,228.4168</b> | <b>2,228.4168</b> | <b>0.0957</b> |     | <b>2,230.8079</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2030****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0770        | 2.8064        | 0.8931        | 9.4000e-003   | 0.2572        | 2.9800e-003   | 0.2601        | 0.0740         | 2.8500e-003   | 0.0769        |          | 1,023.6593        | 1,023.6593        | 0.0718        |     | 1,025.4552        |
| Worker       | 0.5060        | 0.2656        | 2.8580        | 0.0121        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,204.7575        | 1,204.7575        | 0.0238        |     | 1,205.3526        |
| <b>Total</b> | <b>0.5830</b> | <b>3.0719</b> | <b>3.7511</b> | <b>0.0215</b> | <b>2.0454</b> | <b>0.0110</b> | <b>2.0564</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5585</b> |          | <b>2,228.4168</b> | <b>2,228.4168</b> | <b>0.0957</b> |     | <b>2,230.8079</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0761        | 2.7816        | 0.8896        | 9.3700e-003   | 0.2572        | 2.9200e-003   | 0.2601        | 0.0740         | 2.7900e-003        | 0.0768        |          | 1,020.5727        | 1,020.5727        | 0.0714        |     | 1,022.3575        |
| Worker       | 0.4705        | 0.2488        | 2.7076        | 0.0118        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,177.8144        | 1,177.8144        | 0.0225        |     | 1,178.3775        |
| <b>Total</b> | <b>0.5466</b> | <b>3.0304</b> | <b>3.5972</b> | <b>0.0212</b> | <b>2.0454</b> | <b>0.0104</b> | <b>2.0558</b> | <b>0.5483</b>  | <b>9.6500e-003</b> | <b>0.5579</b> |          | <b>2,198.3871</b> | <b>2,198.3871</b> | <b>0.0939</b> |     | <b>2,200.7350</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**3.6 Building Construction - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0761        | 2.7816        | 0.8896        | 9.3700e-003   | 0.2572        | 2.9200e-003   | 0.2601        | 0.0740         | 2.7900e-003        | 0.0768        |          | 1,020.5727        | 1,020.5727        | 0.0714        |     | 1,022.3575        |
| Worker       | 0.4705        | 0.2488        | 2.7076        | 0.0118        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,177.8144        | 1,177.8144        | 0.0225        |     | 1,178.3775        |
| <b>Total</b> | <b>0.5466</b> | <b>3.0304</b> | <b>3.5972</b> | <b>0.0212</b> | <b>2.0454</b> | <b>0.0104</b> | <b>2.0558</b> | <b>0.5483</b>  | <b>9.6500e-003</b> | <b>0.5579</b> |          | <b>2,198.3871</b> | <b>2,198.3871</b> | <b>0.0939</b> |     | <b>2,200.7350</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 8 - UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 3.7451 | 19.9417 | 50.5842 | 0.2506 | 31.7937       | 0.0915       | 31.8851    | 8.4973         | 0.0852        | 8.5825      |          | 25,834.00<br>82 | 25,834.00<br>82 | 1.1921 |     | 25,863.81<br>13 |
| Unmitigated | 3.7451 | 19.9417 | 50.5842 | 0.2506 | 31.7937       | 0.0915       | 31.8851    | 8.4973         | 0.0852        | 8.5825      |          | 25,834.00<br>82 | 25,834.00<br>82 | 1.1921 |     | 25,863.81<br>13 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 3,890.00                | 4,049.49 | 3520.45  | 14,284,518  | 14,284,518 |
| Total                 | 3,890.00                | 4,049.49 | 3,520.45 | 14,284,518  | 14,284,518 |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 8 - UM - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |
| NaturalGas Unmitigated | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |

## Desert Subregion 8 - UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39567.6        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</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/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39.5676        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 8 - UM - San Diego County, Winter

|             | ROG      | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2  | Total CO2   | CH4     | N2O    | CO2e        |
|-------------|----------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|------------|-------------|---------|--------|-------------|
| Category    | lb/day   |         |          |        |               |              |            |                |               |             | lb/day      |            |             |         |        |             |
| Mitigated   | 612.4639 | 11.9948 | 766.8144 | 1.3331 |               | 103.2127     | 103.2127   |                | 103.2127      | 103.2127    | 10,803.2033 | 4,588.4927 | 15,391.6960 | 10.0246 | 0.8498 | 15,895.5367 |
| Unmitigated | 612.4639 | 11.9948 | 766.8144 | 1.3331 |               | 103.2127     | 103.2127   |                | 103.2127      | 103.2127    | 10,803.2033 | 4,588.4927 | 15,391.6960 | 10.0246 | 0.8498 | 15,895.5367 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2         | Total CO2          | CH4            | N2O           | CO2e               |
|-----------------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|-------------------|--------------------|----------------|---------------|--------------------|
| SubCategory           | lb/day          |                |                 |               |               |                 |                 |                |                 |                 | lb/day             |                   |                    |                |               |                    |
| Architectural Coating | 1.2004          |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Consumer Products     | 14.9843         |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Hearth                | 595.3236        | 11.6260        | 734.8624        | 1.3314        |               | 103.0347        | 103.0347        |                | 103.0347        | 103.0347        | 10,803.2033        | 4,530.7059        | 15,333.9091        | 9.9696         | 0.8498        | 15,836.3748        |
| Landscaping           | 0.9557          | 0.3688         | 31.9520         | 1.6900e-003   |               | 0.1780          | 0.1780          |                | 0.1780          | 0.1780          |                    | 57.7868           | 57.7868            | 0.0550         |               | 59.1619            |
| <b>Total</b>          | <b>612.4639</b> | <b>11.9948</b> | <b>766.8144</b> | <b>1.3331</b> |               | <b>103.2127</b> | <b>103.2127</b> |                | <b>103.2127</b> | <b>103.2127</b> | <b>10,803.2033</b> | <b>4,588.4927</b> | <b>15,391.6960</b> | <b>10.0246</b> | <b>0.8498</b> | <b>15,895.5367</b> |

## Desert Subregion 8 - UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx            | CO              | SO2           | Fugitive PM10 | Exhaust PM10    | PM10 Total      | Fugitive PM2.5 | Exhaust PM2.5   | PM2.5 Total     | Bio- CO2           | NBio- CO2         | Total CO2          | CH4            | N2O           | CO2e               |
|-----------------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|-------------------|--------------------|----------------|---------------|--------------------|
| SubCategory           | lb/day          |                |                 |               |               |                 |                 |                |                 |                 | lb/day             |                   |                    |                |               |                    |
| Architectural Coating | 1.2004          |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Consumer Products     | 14.9843         |                |                 |               |               | 0.0000          | 0.0000          |                | 0.0000          | 0.0000          |                    |                   | 0.0000             |                |               | 0.0000             |
| Hearth                | 595.3236        | 11.6260        | 734.8624        | 1.3314        |               | 103.0347        | 103.0347        |                | 103.0347        | 103.0347        | 10,803.2033        | 4,530.7059        | 15,333.9091        | 9.9696         | 0.8498        | 15,836.3748        |
| Landscaping           | 0.9557          | 0.3688         | 31.9520         | 1.6900e-003   |               | 0.1780          | 0.1780          |                | 0.1780          | 0.1780          |                    | 57.7868           | 57.7868            | 0.0550         |               | 59.1619            |
| <b>Total</b>          | <b>612.4639</b> | <b>11.9948</b> | <b>766.8144</b> | <b>1.3331</b> |               | <b>103.2127</b> | <b>103.2127</b> |                | <b>103.2127</b> | <b>103.2127</b> | <b>10,803.2033</b> | <b>4,588.4927</b> | <b>15,391.6960</b> | <b>10.0246</b> | <b>0.8498</b> | <b>15,895.5367</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 8 - UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 8 - M - San Diego County, Winter

## Desert Subregion 8 - M

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 389.00 | Dwelling Unit | 126.30      | 700,200.00         | 1113       |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Desert Subregion 8 - M - San Diego County, Winter

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 3/18/2033 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 7/11/2031 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 8/23/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/14/2032 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/15/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/15/2032 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 8/24/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 6/16/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 7/12/2031 |
| tblFireplaces             | NumberGas                       | 213.95     | 389.00    |
| tblFireplaces             | NumberNoFireplace               | 38.90      | 0.00      |
| tblFireplaces             | NumberWood                      | 136.15     | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 19.45      | 0.00      |

## Desert Subregion 8 - M - San Diego County, Winter

|               |   |                    |   |       |   |      |
|---------------|---|--------------------|---|-------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 19.45 | : | 0.00 |
|---------------|---|--------------------|---|-------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

## Desert Subregion 8 - M - San Diego County, Winter

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 4.8647  | 54.6115 | 34.2189 | 0.0645      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,391.585<br>0 | 6,391.585<br>0 | 1.9505 | 0.0000 | 6,440.346<br>7 |
| 2020    | 3.1005  | 24.2837 | 23.5210 | 0.0544      | 2.0454        | 1.1507       | 3.1960     | 0.5483         | 1.0821        | 1.6303      | 0.0000   | 5,367.774<br>1 | 5,367.774<br>1 | 0.7648 | 0.0000 | 5,386.894<br>5 |
| 2021    | 2.8086  | 22.0475 | 22.7762 | 0.0537      | 2.0454        | 0.9791       | 3.0245     | 0.5483         | 0.9204        | 1.4687      | 0.0000   | 5,300.478<br>5 | 5,300.478<br>5 | 0.7503 | 0.0000 | 5,319.236<br>4 |
| 2022    | 2.5657  | 19.9646 | 22.1428 | 0.0530      | 2.0454        | 0.8280       | 2.8734     | 0.5483         | 0.7789        | 1.3272      | 0.0000   | 5,230.490<br>2 | 5,230.490<br>2 | 0.7394 | 0.0000 | 5,248.976<br>2 |
| 2023    | 2.3694  | 17.8894 | 21.5773 | 0.0521      | 2.0454        | 0.7148       | 2.7602     | 0.5483         | 0.6724        | 1.2207      | 0.0000   | 5,143.249<br>3 | 5,143.249<br>3 | 0.7237 | 0.0000 | 5,161.342<br>4 |
| 2024    | 2.2328  | 16.8707 | 21.1819 | 0.0514      | 2.0454        | 0.6280       | 2.6734     | 0.5483         | 0.5906        | 1.1388      | 0.0000   | 5,076.832<br>9 | 5,076.832<br>9 | 0.7160 | 0.0000 | 5,094.732<br>5 |
| 2025    | 2.0980  | 15.8229 | 20.8098 | 0.0508      | 2.0454        | 0.5420       | 2.5874     | 0.5483         | 0.5096        | 1.0579      | 0.0000   | 5,011.856<br>6 | 5,011.856<br>6 | 0.7089 | 0.0000 | 5,029.578<br>4 |
| 2026    | 2.0713  | 15.7561 | 20.5679 | 0.0502      | 2.0454        | 0.5415       | 2.5869     | 0.5483         | 0.5092        | 1.0575      | 0.0000   | 4,954.290<br>4 | 4,954.290<br>4 | 0.7057 | 0.0000 | 4,971.933<br>1 |
| 2027    | 2.0445  | 15.6939 | 20.3541 | 0.0496      | 2.0454        | 0.5408       | 2.5862     | 0.5483         | 0.5086        | 1.0569      | 0.0000   | 4,903.357<br>5 | 4,903.357<br>5 | 0.7030 | 0.0000 | 4,920.931<br>5 |
| 2028    | 2.0159  | 15.6408 | 20.1722 | 0.0492      | 2.0454        | 0.5400       | 2.5854     | 0.5483         | 0.5078        | 1.0561      | 0.0000   | 4,858.900<br>0 | 4,858.900<br>0 | 0.7006 | 0.0000 | 4,876.414<br>5 |
| 2029    | 1.9846  | 15.5883 | 19.9981 | 0.0488      | 2.0454        | 0.5393       | 2.5846     | 0.5483         | 0.5071        | 1.0554      | 0.0000   | 4,819.357<br>9 | 4,819.357<br>9 | 0.6985 | 0.0000 | 4,836.820<br>4 |
| 2030    | 1.8921  | 11.0065 | 19.9081 | 0.0524      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1584        | 0.7066      | 0.0000   | 5,125.963<br>6 | 5,125.963<br>6 | 0.2119 | 0.0000 | 5,131.260<br>7 |
| 2031    | 1.8557  | 10.9650 | 19.7542 | 0.0521      | 2.0454        | 0.3314       | 2.2039     | 0.5483         | 0.3314        | 0.7061      | 0.0000   | 5,095.933<br>9 | 5,095.933<br>9 | 0.2102 | 0.0000 | 5,101.187<br>9 |
| 2032    | 20.1337 | 7.1454  | 16.1258 | 0.0293      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,780.206<br>4 | 2,780.206<br>4 | 0.1268 | 0.0000 | 2,783.377<br>3 |
| 2033    | 20.1282 | 0.9009  | 2.2911  | 5.2400e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 508.3101       | 508.3101       | 0.0155 | 0.0000 | 508.6977       |
| Maximum | 20.1337 | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

Desert Subregion 8 - M - San Diego County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Mitigated Construction**

## Desert Subregion 8 - M - San Diego County, Winter

|         | ROG     | NOx     | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |             |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 4.8647  | 54.6115 | 34.2189 | 0.0645      | 8.9288        | 2.3844       | 11.3132    | 3.6643         | 2.1937        | 5.8579      | 0.0000   | 6,391.585<br>0 | 6,391.585<br>0 | 1.9505 | 0.0000 | 6,440.346<br>7 |
| 2020    | 3.1005  | 24.2837 | 23.5210 | 0.0544      | 2.0454        | 1.1507       | 3.1960     | 0.5483         | 1.0821        | 1.6303      | 0.0000   | 5,367.774<br>1 | 5,367.774<br>1 | 0.7648 | 0.0000 | 5,386.894<br>5 |
| 2021    | 2.8086  | 22.0475 | 22.7762 | 0.0537      | 2.0454        | 0.9791       | 3.0245     | 0.5483         | 0.9204        | 1.4687      | 0.0000   | 5,300.478<br>5 | 5,300.478<br>5 | 0.7503 | 0.0000 | 5,319.236<br>4 |
| 2022    | 2.5657  | 19.9646 | 22.1428 | 0.0530      | 2.0454        | 0.8280       | 2.8734     | 0.5483         | 0.7789        | 1.3272      | 0.0000   | 5,230.490<br>2 | 5,230.490<br>2 | 0.7394 | 0.0000 | 5,248.976<br>2 |
| 2023    | 2.3694  | 17.8894 | 21.5773 | 0.0521      | 2.0454        | 0.7148       | 2.7602     | 0.5483         | 0.6724        | 1.2207      | 0.0000   | 5,143.249<br>3 | 5,143.249<br>3 | 0.7237 | 0.0000 | 5,161.342<br>4 |
| 2024    | 2.2328  | 16.8707 | 21.1819 | 0.0514      | 2.0454        | 0.6280       | 2.6734     | 0.5483         | 0.5906        | 1.1388      | 0.0000   | 5,076.832<br>9 | 5,076.832<br>9 | 0.7160 | 0.0000 | 5,094.732<br>5 |
| 2025    | 2.0980  | 15.8229 | 20.8098 | 0.0508      | 2.0454        | 0.5420       | 2.5874     | 0.5483         | 0.5096        | 1.0579      | 0.0000   | 5,011.856<br>6 | 5,011.856<br>6 | 0.7089 | 0.0000 | 5,029.578<br>4 |
| 2026    | 2.0713  | 15.7561 | 20.5679 | 0.0502      | 2.0454        | 0.5415       | 2.5869     | 0.5483         | 0.5092        | 1.0575      | 0.0000   | 4,954.290<br>4 | 4,954.290<br>4 | 0.7057 | 0.0000 | 4,971.933<br>1 |
| 2027    | 2.0445  | 15.6939 | 20.3541 | 0.0496      | 2.0454        | 0.5408       | 2.5862     | 0.5483         | 0.5086        | 1.0569      | 0.0000   | 4,903.357<br>5 | 4,903.357<br>5 | 0.7030 | 0.0000 | 4,920.931<br>5 |
| 2028    | 2.0159  | 15.6408 | 20.1722 | 0.0492      | 2.0454        | 0.5400       | 2.5854     | 0.5483         | 0.5078        | 1.0561      | 0.0000   | 4,858.900<br>0 | 4,858.900<br>0 | 0.7006 | 0.0000 | 4,876.414<br>5 |
| 2029    | 1.9846  | 15.5883 | 19.9981 | 0.0488      | 2.0454        | 0.5393       | 2.5846     | 0.5483         | 0.5071        | 1.0554      | 0.0000   | 4,819.357<br>9 | 4,819.357<br>9 | 0.6985 | 0.0000 | 4,836.820<br>4 |
| 2030    | 1.8921  | 11.0065 | 19.9081 | 0.0524      | 2.0454        | 0.1591       | 2.2045     | 0.5483         | 0.1584        | 0.7066      | 0.0000   | 5,125.963<br>6 | 5,125.963<br>6 | 0.2119 | 0.0000 | 5,131.260<br>7 |
| 2031    | 1.8557  | 10.9650 | 19.7542 | 0.0521      | 2.0454        | 0.3314       | 2.2039     | 0.5483         | 0.3314        | 0.7061      | 0.0000   | 5,095.933<br>9 | 5,095.933<br>9 | 0.2102 | 0.0000 | 5,101.187<br>9 |
| 2032    | 20.1337 | 7.1454  | 16.1258 | 0.0293      | 0.3577        | 0.3314       | 0.5230     | 0.0948         | 0.3313        | 0.3821      | 0.0000   | 2,780.206<br>4 | 2,780.206<br>4 | 0.1268 | 0.0000 | 2,783.377<br>3 |
| 2033    | 20.1282 | 0.9009  | 2.2911  | 5.2400e-003 | 0.3577        | 0.0216       | 0.3793     | 0.0948         | 0.0215        | 0.1164      | 0.0000   | 508.3101       | 508.3101       | 0.0155 | 0.0000 | 508.6977       |
| Maximum | 20.1337 | 59.6239 | 36.0248 | 0.0646      | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

## Desert Subregion 8 - M - San Diego County, Winter

[illegible]

## Desert Subregion 8 - M - San Diego County, Winter

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

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 17.8954        | 6.8216         | 34.6979        | 0.0429        |                | 0.6997        | 0.6997         |                | 0.6997        | 0.6997        | 0.0000        | 8,295.4339         | 8,295.4339         | 0.2129        | 0.1510        | 8,345.7612         |
| Energy       | 0.4267         | 3.6464         | 1.5517         | 0.0233        |                | 0.2948        | 0.2948         |                | 0.2948        | 0.2948        |               | 4,655.0104         | 4,655.0104         | 0.0892        | 0.0853        | 4,682.6728         |
| Mobile       | 3.7451         | 19.9417        | 50.5842        | 0.2506        | 31.7937        | 0.0915        | 31.8851        | 8.4973         | 0.0852        | 8.5825        |               | 25,834.0082        | 25,834.0082        | 1.1921        |               | 25,863.8113        |
| <b>Total</b> | <b>22.0673</b> | <b>30.4098</b> | <b>86.8338</b> | <b>0.3168</b> | <b>31.7937</b> | <b>1.0860</b> | <b>32.8796</b> | <b>8.4973</b>  | <b>1.0797</b> | <b>9.5771</b> | <b>0.0000</b> | <b>38,784.4525</b> | <b>38,784.4525</b> | <b>1.4942</b> | <b>0.2364</b> | <b>38,892.2453</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     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 17.8954        | 6.8216         | 34.6979        | 0.0429        |                | 0.6997        | 0.6997         |                | 0.6997        | 0.6997        | 0.0000        | 8,295.4339         | 8,295.4339         | 0.2129        | 0.1510        | 8,345.7612         |
| Energy       | 0.4267         | 3.6464         | 1.5517         | 0.0233        |                | 0.2948        | 0.2948         |                | 0.2948        | 0.2948        |               | 4,655.0104         | 4,655.0104         | 0.0892        | 0.0853        | 4,682.6728         |
| Mobile       | 3.7451         | 19.9417        | 50.5842        | 0.2506        | 31.7937        | 0.0915        | 31.8851        | 8.4973         | 0.0852        | 8.5825        |               | 25,834.0082        | 25,834.0082        | 1.1921        |               | 25,863.8113        |
| <b>Total</b> | <b>22.0673</b> | <b>30.4098</b> | <b>86.8338</b> | <b>0.3168</b> | <b>31.7937</b> | <b>1.0860</b> | <b>32.8796</b> | <b>8.4973</b>  | <b>1.0797</b> | <b>9.5771</b> | <b>0.0000</b> | <b>38,784.4525</b> | <b>38,784.4525</b> | <b>1.4942</b> | <b>0.2364</b> | <b>38,892.2453</b> |

## Desert Subregion 8 - M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 6/15/2018 | 5             | 120      |                   |
| 2            | Architectural Coating | Architectural Coating | 5/15/2032  | 3/18/2033 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 6/16/2018  | 8/23/2019 | 5             | 310      |                   |
| 4            | Paving                | Paving                | 7/12/2031  | 5/14/2032 | 5             | 220      |                   |
| 5            | Building Construction | Building Construction | 8/24/2019  | 7/11/2031 | 5             | 3100     |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 1,417,905; Residential Outdoor: 472,635; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 8 - M - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 28.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 140.00             | 42.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 8 - M - San Diego County, Winter

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.3 Architectural Coating - 2032****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0878        | 0.0470        | 0.5157        | 2.3100e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 230.8874        | 230.8874        | 4.2900e-003        |     | 230.9947        |
| <b>Total</b> | <b>0.0878</b> | <b>0.0470</b> | <b>0.5157</b> | <b>2.3100e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>230.8874</b> | <b>230.8874</b> | <b>4.2900e-003</b> |     | <b>230.9947</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.3 Architectural Coating - 2032****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0878        | 0.0470        | 0.5157        | 2.3100e-003        | 0.3577        | 1.3900e-003        | 0.3590        | 0.0948         | 1.2800e-003        | 0.0961        |          | 230.8874        | 230.8874        | 4.2900e-003        |     | 230.9947        |
| <b>Total</b> | <b>0.0878</b> | <b>0.0470</b> | <b>0.5157</b> | <b>2.3100e-003</b> | <b>0.3577</b> | <b>1.3900e-003</b> | <b>0.3590</b> | <b>0.0948</b>  | <b>1.2800e-003</b> | <b>0.0961</b> |          | <b>230.8874</b> | <b>230.8874</b> | <b>4.2900e-003</b> |     | <b>230.9947</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.3 Architectural Coating - 2033****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        |          | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0823        | 0.0446        | 0.4934        | 2.2700e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 226.8620        | 226.8620        | 4.1100e-003        |     | 226.9649        |
| <b>Total</b> | <b>0.0823</b> | <b>0.0446</b> | <b>0.4934</b> | <b>2.2700e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>226.8620</b> | <b>226.8620</b> | <b>4.1100e-003</b> |     | <b>226.9649</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.3 Architectural Coating - 2033****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 19.9151        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1308         | 0.8563        | 1.7977        | 2.9700e-003        |               | 0.0203        | 0.0203        |                | 0.0203        | 0.0203        | 0.0000        | 281.4481        | 281.4481        | 0.0114        |     | 281.7328        |
| <b>Total</b>    | <b>20.0459</b> | <b>0.8563</b> | <b>1.7977</b> | <b>2.9700e-003</b> |               | <b>0.0203</b> | <b>0.0203</b> |                | <b>0.0203</b> | <b>0.0203</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0114</b> |     | <b>281.7328</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0823        | 0.0446        | 0.4934        | 2.2700e-003        | 0.3577        | 1.3000e-003        | 0.3589        | 0.0948         | 1.1900e-003        | 0.0960        |          | 226.8620        | 226.8620        | 4.1100e-003        |     | 226.9649        |
| <b>Total</b> | <b>0.0823</b> | <b>0.0446</b> | <b>0.4934</b> | <b>2.2700e-003</b> | <b>0.3577</b> | <b>1.3000e-003</b> | <b>0.3589</b> | <b>0.0948</b>  | <b>1.1900e-003</b> | <b>0.0960</b> |          | <b>226.8620</b> | <b>226.8620</b> | <b>4.1100e-003</b> |     | <b>226.9649</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.4 Grading - 2019****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        |          | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> |          | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1258        | 0.0913        | 0.8421        | 2.5200e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 251.5655        | 251.5655        | 7.8300e-003        |     | 251.7613        |
| <b>Total</b> | <b>0.1258</b> | <b>0.0913</b> | <b>0.8421</b> | <b>2.5200e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>251.5655</b> | <b>251.5655</b> | <b>7.8300e-003</b> |     | <b>251.7613</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.4 Grading - 2019****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.7389        | 54.5202        | 33.3768        | 0.0620        |               | 2.3827        | 2.3827         |                | 2.1920        | 2.1920        | 0.0000        | 6,140.0195        | 6,140.0195        | 1.9426        |     | 6,188.5854        |
| <b>Total</b>  | <b>4.7389</b> | <b>54.5202</b> | <b>33.3768</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.3827</b> | <b>11.0560</b> | <b>3.5965</b>  | <b>2.1920</b> | <b>5.7885</b> | <b>0.0000</b> | <b>6,140.0195</b> | <b>6,140.0195</b> | <b>1.9426</b> |     | <b>6,188.5854</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1258        | 0.0913        | 0.8421        | 2.5200e-003        | 0.2555        | 1.7500e-003        | 0.2572        | 0.0678         | 1.6100e-003        | 0.0694        |          | 251.5655        | 251.5655        | 7.8300e-003        |     | 251.7613        |
| <b>Total</b> | <b>0.1258</b> | <b>0.0913</b> | <b>0.8421</b> | <b>2.5200e-003</b> | <b>0.2555</b> | <b>1.7500e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6100e-003</b> | <b>0.0694</b> |          | <b>251.5655</b> | <b>251.5655</b> | <b>7.8300e-003</b> |     | <b>251.7613</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.5 Paving - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0504        | 0.0267        | 0.2901        | 1.2600e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 126.1944        | 126.1944        | 2.4100e-003        |     | 126.2547        |
| <b>Total</b> | <b>0.0504</b> | <b>0.0267</b> | <b>0.2901</b> | <b>1.2600e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>126.1944</b> | <b>126.1944</b> | <b>2.4100e-003</b> |     | <b>126.2547</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.5 Paving - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0504        | 0.0267        | 0.2901        | 1.2600e-003        | 0.1916        | 8.0000e-004        | 0.1924        | 0.0508         | 7.3000e-004        | 0.0515        |          | 126.1944        | 126.1944        | 2.4100e-003        |     | 126.2547        |
| <b>Total</b> | <b>0.0504</b> | <b>0.0267</b> | <b>0.2901</b> | <b>1.2600e-003</b> | <b>0.1916</b> | <b>8.0000e-004</b> | <b>0.1924</b> | <b>0.0508</b>  | <b>7.3000e-004</b> | <b>0.0515</b> |          | <b>126.1944</b> | <b>126.1944</b> | <b>2.4100e-003</b> |     | <b>126.2547</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.5 Paving - 2032****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        |          | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> |          | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0470        | 0.0252        | 0.2763        | 1.2400e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 123.6897        | 123.6897        | 2.3000e-003        |     | 123.7472        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0252</b> | <b>0.2763</b> | <b>1.2400e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>123.6897</b> | <b>123.6897</b> | <b>2.3000e-003</b> |     | <b>123.7472</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.5 Paving - 2032****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3845        | 7.1202        | 15.8495        | 0.0281        |               | 0.3306        | 0.3306        |                | 0.3306        | 0.3306        | 0.0000        | 2,656.5168        | 2,656.5168        | 0.1245        |     | 2,659.6302        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.3845</b> | <b>7.1202</b> | <b>15.8495</b> | <b>0.0281</b> |               | <b>0.3306</b> | <b>0.3306</b> |                | <b>0.3306</b> | <b>0.3306</b> | <b>0.0000</b> | <b>2,656.5168</b> | <b>2,656.5168</b> | <b>0.1245</b> |     | <b>2,659.6302</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0470        | 0.0252        | 0.2763        | 1.2400e-003        | 0.1916        | 7.4000e-004        | 0.1923        | 0.0508         | 6.8000e-004        | 0.0515        |          | 123.6897        | 123.6897        | 2.3000e-003        |     | 123.7472        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0252</b> | <b>0.2763</b> | <b>1.2400e-003</b> | <b>0.1916</b> | <b>7.4000e-004</b> | <b>0.1923</b> | <b>0.0508</b>  | <b>6.8000e-004</b> | <b>0.0515</b> |          | <b>123.6897</b> | <b>123.6897</b> | <b>2.3000e-003</b> |     | <b>123.7472</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1895        | 4.9622        | 1.4248        | 0.0104        | 0.2572        | 0.0336        | 0.2908        | 0.0740         | 0.0322        | 0.1062        |          | 1,117.055<br>0         | 1,117.055<br>0         | 0.0976        |     | 1,119.494<br>8         |
| Worker       | 0.8807        | 0.6393        | 5.8948        | 0.0177        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,760.958<br>5         | 1,760.958<br>5         | 0.0548        |     | 1,762.329<br>2         |
| <b>Total</b> | <b>1.0702</b> | <b>5.6015</b> | <b>7.3196</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0459</b> | <b>2.0913</b> | <b>0.5483</b>  | <b>0.0435</b> | <b>0.5917</b> |          | <b>2,878.013<br/>6</b> | <b>2,878.013<br/>6</b> | <b>0.1524</b> |     | <b>2,881.824<br/>0</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1895        | 4.9622        | 1.4248        | 0.0104        | 0.2572        | 0.0336        | 0.2908        | 0.0740         | 0.0322        | 0.1062        |          | 1,117.055<br>0         | 1,117.055<br>0         | 0.0976        |     | 1,119.494<br>8         |
| Worker       | 0.8807        | 0.6393        | 5.8948        | 0.0177        | 1.7882        | 0.0123        | 1.8005        | 0.4742         | 0.0113        | 0.4855        |          | 1,760.958<br>5         | 1,760.958<br>5         | 0.0548        |     | 1,762.329<br>2         |
| <b>Total</b> | <b>1.0702</b> | <b>5.6015</b> | <b>7.3196</b> | <b>0.0281</b> | <b>2.0454</b> | <b>0.0459</b> | <b>2.0913</b> | <b>0.5483</b>  | <b>0.0435</b> | <b>0.5917</b> |          | <b>2,878.013<br/>6</b> | <b>2,878.013<br/>6</b> | <b>0.1524</b> |     | <b>2,881.824<br/>0</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1550        | 4.5205        | 1.2808        | 0.0103        | 0.2572        | 0.0215        | 0.2787        | 0.0740         | 0.0206        | 0.0946        |          | 1,109.385<br>1         | 1,109.385<br>1         | 0.0924        |     | 1,111.694<br>9         |
| Worker       | 0.8257        | 0.5772        | 5.3917        | 0.0171        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,705.325<br>9         | 1,705.325<br>9         | 0.0496        |     | 1,706.565<br>2         |
| <b>Total</b> | <b>0.9807</b> | <b>5.0976</b> | <b>6.6725</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0336</b> | <b>2.0790</b> | <b>0.5483</b>  | <b>0.0317</b> | <b>0.5800</b> |          | <b>2,814.711<br/>0</b> | <b>2,814.711<br/>0</b> | <b>0.1420</b> |     | <b>2,818.260<br/>1</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1550        | 4.5205        | 1.2808        | 0.0103        | 0.2572        | 0.0215        | 0.2787        | 0.0740         | 0.0206        | 0.0946        |          | 1,109.385<br>1         | 1,109.385<br>1         | 0.0924        |     | 1,111.694<br>9         |
| Worker       | 0.8257        | 0.5772        | 5.3917        | 0.0171        | 1.7882        | 0.0121        | 1.8003        | 0.4742         | 0.0111        | 0.4853        |          | 1,705.325<br>9         | 1,705.325<br>9         | 0.0496        |     | 1,706.565<br>2         |
| <b>Total</b> | <b>0.9807</b> | <b>5.0976</b> | <b>6.6725</b> | <b>0.0274</b> | <b>2.0454</b> | <b>0.0336</b> | <b>2.0790</b> | <b>0.5483</b>  | <b>0.0317</b> | <b>0.5800</b> |          | <b>2,814.711<br/>0</b> | <b>2,814.711<br/>0</b> | <b>0.1420</b> |     | <b>2,818.260<br/>1</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1269        | 4.0904        | 1.1620        | 0.0102        | 0.2572        | 8.5900e-003   | 0.2658        | 0.0740         | 8.2100e-003   | 0.0823        |          | 1,099.1343        | 1,099.1343        | 0.0885        |     | 1,101.3478        |
| Worker       | 0.7808        | 0.5250        | 5.0390        | 0.0165        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,647.9803        | 1,647.9803        | 0.0458        |     | 1,649.1244        |
| <b>Total</b> | <b>0.9077</b> | <b>4.6154</b> | <b>6.2010</b> | <b>0.0268</b> | <b>2.0454</b> | <b>0.0205</b> | <b>2.0659</b> | <b>0.5483</b>  | <b>0.0192</b> | <b>0.5674</b> |          | <b>2,747.1146</b> | <b>2,747.1146</b> | <b>0.1343</b> |     | <b>2,750.4721</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.1269        | 4.0904        | 1.1620        | 0.0102        | 0.2572        | 8.5900e-003   | 0.2658        | 0.0740         | 8.2100e-003   | 0.0823        |          | 1,099.134<br>3         | 1,099.134<br>3         | 0.0885        |     | 1,101.347<br>8         |
| Worker       | 0.7808        | 0.5250        | 5.0390        | 0.0165        | 1.7882        | 0.0119        | 1.8001        | 0.4742         | 0.0109        | 0.4852        |          | 1,647.980<br>3         | 1,647.980<br>3         | 0.0458        |     | 1,649.124<br>4         |
| <b>Total</b> | <b>0.9077</b> | <b>4.6154</b> | <b>6.2010</b> | <b>0.0268</b> | <b>2.0454</b> | <b>0.0205</b> | <b>2.0659</b> | <b>0.5483</b>  | <b>0.0192</b> | <b>0.5674</b> |          | <b>2,747.114<br/>6</b> | <b>2,747.114<br/>6</b> | <b>0.1343</b> |     | <b>2,750.472<br/>1</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2022****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        |          | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1180        | 3.8700        | 1.0989        | 0.0101        | 0.2572        | 7.4000e-003   | 0.2646        | 0.0740         | 7.0800e-003   | 0.0811        |          | 1,088.6274        | 1,088.6274        | 0.0856        |     | 1,090.7666        |
| Worker       | 0.7415        | 0.4790        | 4.6805        | 0.0159        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,587.5293        | 1,587.5293        | 0.0419        |     | 1,588.5773        |
| <b>Total</b> | <b>0.8594</b> | <b>4.3490</b> | <b>5.7794</b> | <b>0.0260</b> | <b>2.0454</b> | <b>0.0190</b> | <b>2.0644</b> | <b>0.5483</b>  | <b>0.0178</b> | <b>0.5660</b> |          | <b>2,676.1566</b> | <b>2,676.1566</b> | <b>0.1275</b> |     | <b>2,679.3440</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2022****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7062        | 15.6156        | 16.3634        | 0.0269        |               | 0.8090        | 0.8090        |                | 0.7612        | 0.7612        | 0.0000        | 2,554.3336        | 2,554.3336        | 0.6120        |     | 2,569.6322        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> | <b>0.0000</b> | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1180        | 3.8700        | 1.0989        | 0.0101        | 0.2572        | 7.4000e-003   | 0.2646        | 0.0740         | 7.0800e-003   | 0.0811        |          | 1,088.6274        | 1,088.6274        | 0.0856        |     | 1,090.7666        |
| Worker       | 0.7415        | 0.4790        | 4.6805        | 0.0159        | 1.7882        | 0.0116        | 1.7998        | 0.4742         | 0.0107        | 0.4849        |          | 1,587.5293        | 1,587.5293        | 0.0419        |     | 1,588.5773        |
| <b>Total</b> | <b>0.8594</b> | <b>4.3490</b> | <b>5.7794</b> | <b>0.0260</b> | <b>2.0454</b> | <b>0.0190</b> | <b>2.0644</b> | <b>0.5483</b>  | <b>0.0178</b> | <b>0.5660</b> |          | <b>2,676.1566</b> | <b>2,676.1566</b> | <b>0.1275</b> |     | <b>2,679.3440</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2023****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0912        | 3.0669        | 0.9913        | 9.8300e-003   | 0.2572        | 3.6500e-003   | 0.2608        | 0.0740         | 3.4900e-003   | 0.0775        |          | 1,061.1854        | 1,061.1854        | 0.0775        |     | 1,063.1240        |
| Worker       | 0.7054        | 0.4376        | 4.3420        | 0.0153        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,526.8540        | 1,526.8540        | 0.0383        |     | 1,527.8124        |
| <b>Total</b> | <b>0.7966</b> | <b>3.5045</b> | <b>5.3333</b> | <b>0.0251</b> | <b>2.0454</b> | <b>0.0150</b> | <b>2.0604</b> | <b>0.5483</b>  | <b>0.0140</b> | <b>0.5622</b> |          | <b>2,588.0393</b> | <b>2,588.0393</b> | <b>0.1159</b> |     | <b>2,590.9364</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2023****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0912        | 3.0669        | 0.9913        | 9.8300e-003   | 0.2572        | 3.6500e-003   | 0.2608        | 0.0740         | 3.4900e-003   | 0.0775        |          | 1,061.1854        | 1,061.1854        | 0.0775        |     | 1,063.1240        |
| Worker       | 0.7054        | 0.4376        | 4.3420        | 0.0153        | 1.7882        | 0.0114        | 1.7996        | 0.4742         | 0.0105        | 0.4847        |          | 1,526.8540        | 1,526.8540        | 0.0383        |     | 1,527.8124        |
| <b>Total</b> | <b>0.7966</b> | <b>3.5045</b> | <b>5.3333</b> | <b>0.0251</b> | <b>2.0454</b> | <b>0.0150</b> | <b>2.0604</b> | <b>0.5483</b>  | <b>0.0140</b> | <b>0.5622</b> |          | <b>2,588.0393</b> | <b>2,588.0393</b> | <b>0.1159</b> |     | <b>2,590.9364</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        |          | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> |          | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0878        | 3.0253        | 0.9585        | 9.7500e-003   | 0.2572        | 3.5400e-003   | 0.2607        | 0.0740         | 3.3800e-003   | 0.0774        |          | 1,054.4194        | 1,054.4194        | 0.0764        |     | 1,056.3298        |
| Worker       | 0.6734        | 0.4016        | 4.0565        | 0.0147        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,466.7146        | 1,466.7146        | 0.0352        |     | 1,467.5951        |
| <b>Total</b> | <b>0.7613</b> | <b>3.4269</b> | <b>5.0150</b> | <b>0.0245</b> | <b>2.0454</b> | <b>0.0147</b> | <b>2.0601</b> | <b>0.5483</b>  | <b>0.0137</b> | <b>0.5619</b> |          | <b>2,521.1340</b> | <b>2,521.1340</b> | <b>0.1116</b> |     | <b>2,523.9249</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2024****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4716        | 13.4438        | 16.1668        | 0.0270        |               | 0.6133        | 0.6133        |                | 0.5769        | 0.5769        | 0.0000        | 2,555.6989        | 2,555.6989        | 0.6044        |     | 2,570.8077        |
| <b>Total</b> | <b>1.4716</b> | <b>13.4438</b> | <b>16.1668</b> | <b>0.0270</b> |               | <b>0.6133</b> | <b>0.6133</b> |                | <b>0.5769</b> | <b>0.5769</b> | <b>0.0000</b> | <b>2,555.6989</b> | <b>2,555.6989</b> | <b>0.6044</b> |     | <b>2,570.8077</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0878        | 3.0253        | 0.9585        | 9.7500e-003   | 0.2572        | 3.5400e-003   | 0.2607        | 0.0740         | 3.3800e-003   | 0.0774        |          | 1,054.4194        | 1,054.4194        | 0.0764        |     | 1,056.3298        |
| Worker       | 0.6734        | 0.4016        | 4.0565        | 0.0147        | 1.7882        | 0.0112        | 1.7994        | 0.4742         | 0.0103        | 0.4845        |          | 1,466.7146        | 1,466.7146        | 0.0352        |     | 1,467.5951        |
| <b>Total</b> | <b>0.7613</b> | <b>3.4269</b> | <b>5.0150</b> | <b>0.0245</b> | <b>2.0454</b> | <b>0.0147</b> | <b>2.0601</b> | <b>0.5483</b>  | <b>0.0137</b> | <b>0.5619</b> |          | <b>2,521.1340</b> | <b>2,521.1340</b> | <b>0.1116</b> |     | <b>2,523.9249</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2025****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0851        | 2.9827        | 0.9379        | 9.6800e-003   | 0.2572        | 3.4200e-003   | 0.2606        | 0.0740         | 3.2700e-003   | 0.0773        |          | 1,047.987<br>1         | 1,047.987<br>1         | 0.0754        |     | 1,049.872<br>4         |
| Worker       | 0.6454        | 0.3705        | 3.7872        | 0.0141        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,407.395<br>2         | 1,407.395<br>2         | 0.0325        |     | 1,408.208<br>0         |
| <b>Total</b> | <b>0.7306</b> | <b>3.3532</b> | <b>4.7251</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0144</b> | <b>2.0598</b> | <b>0.5483</b>  | <b>0.0134</b> | <b>0.5617</b> |          | <b>2,455.382<br/>2</b> | <b>2,455.382<br/>2</b> | <b>0.1079</b> |     | <b>2,458.080<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2025****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0851        | 2.9827        | 0.9379        | 9.6800e-003   | 0.2572        | 3.4200e-003   | 0.2606        | 0.0740         | 3.2700e-003   | 0.0773        |          | 1,047.987<br>1         | 1,047.987<br>1         | 0.0754        |     | 1,049.872<br>4         |
| Worker       | 0.6454        | 0.3705        | 3.7872        | 0.0141        | 1.7882        | 0.0110        | 1.7992        | 0.4742         | 0.0101        | 0.4843        |          | 1,407.395<br>2         | 1,407.395<br>2         | 0.0325        |     | 1,408.208<br>0         |
| <b>Total</b> | <b>0.7306</b> | <b>3.3532</b> | <b>4.7251</b> | <b>0.0238</b> | <b>2.0454</b> | <b>0.0144</b> | <b>2.0598</b> | <b>0.5483</b>  | <b>0.0134</b> | <b>0.5617</b> |          | <b>2,455.382<br/>2</b> | <b>2,455.382<br/>2</b> | <b>0.1079</b> |     | <b>2,458.080<br/>3</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2026****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0829        | 2.9415        | 0.9234        | 9.6100e-003   | 0.2572        | 3.3000e-003   | 0.2605        | 0.0740         | 3.1600e-003   | 0.0772        |          | 1,041.970<br>8         | 1,041.970<br>8         | 0.0745        |     | 1,043.832<br>4         |
| Worker       | 0.6210        | 0.3449        | 3.5599        | 0.0136        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,355.845<br>2         | 1,355.845<br>2         | 0.0303        |     | 1,356.602<br>6         |
| <b>Total</b> | <b>0.7039</b> | <b>3.2864</b> | <b>4.4833</b> | <b>0.0232</b> | <b>2.0454</b> | <b>0.0140</b> | <b>2.0593</b> | <b>0.5483</b>  | <b>0.0130</b> | <b>0.5612</b> |          | <b>2,397.816<br/>0</b> | <b>2,397.816<br/>0</b> | <b>0.1048</b> |     | <b>2,400.435<br/>0</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2026****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0829        | 2.9415        | 0.9234        | 9.6100e-003   | 0.2572        | 3.3000e-003   | 0.2605        | 0.0740         | 3.1600e-003   | 0.0772        |          | 1,041.970<br>8         | 1,041.970<br>8         | 0.0745        |     | 1,043.832<br>4         |
| Worker       | 0.6210        | 0.3449        | 3.5599        | 0.0136        | 1.7882        | 0.0107        | 1.7989        | 0.4742         | 9.8000e-003   | 0.4840        |          | 1,355.845<br>2         | 1,355.845<br>2         | 0.0303        |     | 1,356.602<br>6         |
| <b>Total</b> | <b>0.7039</b> | <b>3.2864</b> | <b>4.4833</b> | <b>0.0232</b> | <b>2.0454</b> | <b>0.0140</b> | <b>2.0593</b> | <b>0.5483</b>  | <b>0.0130</b> | <b>0.5612</b> |          | <b>2,397.816<br/>0</b> | <b>2,397.816<br/>0</b> | <b>0.1048</b> |     | <b>2,400.435<br/>0</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2027****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0810        | 2.9021        | 0.9111        | 9.5500e-003   | 0.2572        | 3.2200e-003   | 0.2604        | 0.0740         | 3.0700e-003   | 0.0771        |          | 1,036.458<br>5         | 1,036.458<br>5         | 0.0737        |     | 1,038.299<br>7         |
| Worker       | 0.5961        | 0.3221        | 3.3583        | 0.0131        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,310.424<br>6         | 1,310.424<br>6         | 0.0284        |     | 1,311.133<br>7         |
| <b>Total</b> | <b>0.6771</b> | <b>3.2242</b> | <b>4.2694</b> | <b>0.0227</b> | <b>2.0454</b> | <b>0.0133</b> | <b>2.0587</b> | <b>0.5483</b>  | <b>0.0123</b> | <b>0.5606</b> |          | <b>2,346.883<br/>1</b> | <b>2,346.883<br/>1</b> | <b>0.1020</b> |     | <b>2,349.433<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2027****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0810        | 2.9021        | 0.9111        | 9.5500e-003   | 0.2572        | 3.2200e-003   | 0.2604        | 0.0740         | 3.0700e-003   | 0.0771        |          | 1,036.458<br>5         | 1,036.458<br>5         | 0.0737        |     | 1,038.299<br>7         |
| Worker       | 0.5961        | 0.3221        | 3.3583        | 0.0131        | 1.7882        | 0.0101        | 1.7983        | 0.4742         | 9.2600e-003   | 0.4835        |          | 1,310.424<br>6         | 1,310.424<br>6         | 0.0284        |     | 1,311.133<br>7         |
| <b>Total</b> | <b>0.6771</b> | <b>3.2242</b> | <b>4.2694</b> | <b>0.0227</b> | <b>2.0454</b> | <b>0.0133</b> | <b>2.0587</b> | <b>0.5483</b>  | <b>0.0123</b> | <b>0.5606</b> |          | <b>2,346.883<br/>1</b> | <b>2,346.883<br/>1</b> | <b>0.1020</b> |     | <b>2,349.433<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2028****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0795        | 2.8691        | 0.9044        | 9.5000e-003   | 0.2572        | 3.1400e-003   | 0.2603        | 0.0740         | 3.0000e-003   | 0.0770        |          | 1,031.848<br>6         | 1,031.848<br>6         | 0.0729        |     | 1,033.670<br>9         |
| Worker       | 0.5690        | 0.3020        | 3.1831        | 0.0127        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,270.577<br>1         | 1,270.577<br>1         | 0.0267        |     | 1,271.245<br>6         |
| <b>Total</b> | <b>0.6485</b> | <b>3.1711</b> | <b>4.0875</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0125</b> | <b>2.0578</b> | <b>0.5483</b>  | <b>0.0116</b> | <b>0.5598</b> |          | <b>2,302.425<br/>7</b> | <b>2,302.425<br/>7</b> | <b>0.0996</b> |     | <b>2,304.916<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2028****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0795        | 2.8691        | 0.9044        | 9.5000e-003   | 0.2572        | 3.1400e-003   | 0.2603        | 0.0740         | 3.0000e-003   | 0.0770        |          | 1,031.848<br>6         | 1,031.848<br>6         | 0.0729        |     | 1,033.670<br>9         |
| Worker       | 0.5690        | 0.3020        | 3.1831        | 0.0127        | 1.7882        | 9.3100e-003   | 1.7975        | 0.4742         | 8.5700e-003   | 0.4828        |          | 1,270.577<br>1         | 1,270.577<br>1         | 0.0267        |     | 1,271.245<br>6         |
| <b>Total</b> | <b>0.6485</b> | <b>3.1711</b> | <b>4.0875</b> | <b>0.0222</b> | <b>2.0454</b> | <b>0.0125</b> | <b>2.0578</b> | <b>0.5483</b>  | <b>0.0116</b> | <b>0.5598</b> |          | <b>2,302.425<br/>7</b> | <b>2,302.425<br/>7</b> | <b>0.0996</b> |     | <b>2,304.916<br/>5</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2029****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        |          | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> |          | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0781        | 2.8351        | 0.8971        | 9.4500e-003   | 0.2572        | 3.0500e-003   | 0.2602        | 0.0740         | 2.9200e-003   | 0.0770        |          | 1,027.332<br>8         | 1,027.332<br>8         | 0.0723        |     | 1,029.141<br>0         |
| Worker       | 0.5391        | 0.2835        | 3.0164        | 0.0124        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,235.550<br>7         | 1,235.550<br>7         | 0.0252        |     | 1,236.181<br>4         |
| <b>Total</b> | <b>0.6172</b> | <b>3.1186</b> | <b>3.9135</b> | <b>0.0218</b> | <b>2.0454</b> | <b>0.0117</b> | <b>2.0571</b> | <b>0.5483</b>  | <b>0.0109</b> | <b>0.5591</b> |          | <b>2,262.883<br/>5</b> | <b>2,262.883<br/>5</b> | <b>0.0976</b> |     | <b>2,265.322<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2029****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.3674        | 12.4697        | 16.0847        | 0.0270        |               | 0.5276        | 0.5276        |                | 0.4963        | 0.4963        | 0.0000        | 2,556.474<br>4         | 2,556.474<br>4         | 0.6010        |     | 2,571.498<br>1         |
| <b>Total</b> | <b>1.3674</b> | <b>12.4697</b> | <b>16.0847</b> | <b>0.0270</b> |               | <b>0.5276</b> | <b>0.5276</b> |                | <b>0.4963</b> | <b>0.4963</b> | <b>0.0000</b> | <b>2,556.474<br/>4</b> | <b>2,556.474<br/>4</b> | <b>0.6010</b> |     | <b>2,571.498<br/>1</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0781        | 2.8351        | 0.8971        | 9.4500e-003   | 0.2572        | 3.0500e-003   | 0.2602        | 0.0740         | 2.9200e-003   | 0.0770        |          | 1,027.332<br>8         | 1,027.332<br>8         | 0.0723        |     | 1,029.141<br>0         |
| Worker       | 0.5391        | 0.2835        | 3.0164        | 0.0124        | 1.7882        | 8.6400e-003   | 1.7969        | 0.4742         | 7.9400e-003   | 0.4822        |          | 1,235.550<br>7         | 1,235.550<br>7         | 0.0252        |     | 1,236.181<br>4         |
| <b>Total</b> | <b>0.6172</b> | <b>3.1186</b> | <b>3.9135</b> | <b>0.0218</b> | <b>2.0454</b> | <b>0.0117</b> | <b>2.0571</b> | <b>0.5483</b>  | <b>0.0109</b> | <b>0.5591</b> |          | <b>2,262.883<br/>5</b> | <b>2,262.883<br/>5</b> | <b>0.0976</b> |     | <b>2,265.322<br/>4</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2030****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0770        | 2.8064        | 0.8931        | 9.4000e-003   | 0.2572        | 2.9800e-003   | 0.2601        | 0.0740         | 2.8500e-003   | 0.0769        |          | 1,023.6593        | 1,023.6593        | 0.0718        |     | 1,025.4552        |
| Worker       | 0.5060        | 0.2656        | 2.8580        | 0.0121        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,204.7575        | 1,204.7575        | 0.0238        |     | 1,205.3526        |
| <b>Total</b> | <b>0.5830</b> | <b>3.0719</b> | <b>3.7511</b> | <b>0.0215</b> | <b>2.0454</b> | <b>0.0110</b> | <b>2.0564</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5585</b> |          | <b>2,228.4168</b> | <b>2,228.4168</b> | <b>0.0957</b> |     | <b>2,230.8079</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2030****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0770        | 2.8064        | 0.8931        | 9.4000e-003   | 0.2572        | 2.9800e-003   | 0.2601        | 0.0740         | 2.8500e-003   | 0.0769        |          | 1,023.6593        | 1,023.6593        | 0.0718        |     | 1,025.4552        |
| Worker       | 0.5060        | 0.2656        | 2.8580        | 0.0121        | 1.7882        | 8.0200e-003   | 1.7963        | 0.4742         | 7.3800e-003   | 0.4816        |          | 1,204.7575        | 1,204.7575        | 0.0238        |     | 1,205.3526        |
| <b>Total</b> | <b>0.5830</b> | <b>3.0719</b> | <b>3.7511</b> | <b>0.0215</b> | <b>2.0454</b> | <b>0.0110</b> | <b>2.0564</b> | <b>0.5483</b>  | <b>0.0102</b> | <b>0.5585</b> |          | <b>2,228.4168</b> | <b>2,228.4168</b> | <b>0.0957</b> |     | <b>2,230.8079</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2031****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        |          | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> |          | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0761        | 2.7816        | 0.8896        | 9.3700e-003   | 0.2572        | 2.9200e-003   | 0.2601        | 0.0740         | 2.7900e-003        | 0.0768        |          | 1,020.5727        | 1,020.5727        | 0.0714        |     | 1,022.3575        |
| Worker       | 0.4705        | 0.2488        | 2.7076        | 0.0118        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,177.8144        | 1,177.8144        | 0.0225        |     | 1,178.3775        |
| <b>Total</b> | <b>0.5466</b> | <b>3.0304</b> | <b>3.5972</b> | <b>0.0212</b> | <b>2.0454</b> | <b>0.0104</b> | <b>2.0558</b> | <b>0.5483</b>  | <b>9.6500e-003</b> | <b>0.5579</b> |          | <b>2,198.3871</b> | <b>2,198.3871</b> | <b>0.0939</b> |     | <b>2,200.7350</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**3.6 Building Construction - 2031****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.3091        | 7.9346        | 16.1570        | 0.0310        |               | 0.1481        | 0.1481        |                | 0.1481        | 0.1481        | 0.0000        | 2,897.5468        | 2,897.5468        | 0.1162        |     | 2,900.4529        |
| <b>Total</b> | <b>1.3091</b> | <b>7.9346</b> | <b>16.1570</b> | <b>0.0310</b> |               | <b>0.1481</b> | <b>0.1481</b> |                | <b>0.1481</b> | <b>0.1481</b> | <b>0.0000</b> | <b>2,897.5468</b> | <b>2,897.5468</b> | <b>0.1162</b> |     | <b>2,900.4529</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0761        | 2.7816        | 0.8896        | 9.3700e-003   | 0.2572        | 2.9200e-003   | 0.2601        | 0.0740         | 2.7900e-003        | 0.0768        |          | 1,020.5727        | 1,020.5727        | 0.0714        |     | 1,022.3575        |
| Worker       | 0.4705        | 0.2488        | 2.7076        | 0.0118        | 1.7882        | 7.4600e-003   | 1.7957        | 0.4742         | 6.8600e-003        | 0.4811        |          | 1,177.8144        | 1,177.8144        | 0.0225        |     | 1,178.3775        |
| <b>Total</b> | <b>0.5466</b> | <b>3.0304</b> | <b>3.5972</b> | <b>0.0212</b> | <b>2.0454</b> | <b>0.0104</b> | <b>2.0558</b> | <b>0.5483</b>  | <b>9.6500e-003</b> | <b>0.5579</b> |          | <b>2,198.3871</b> | <b>2,198.3871</b> | <b>0.0939</b> |     | <b>2,200.7350</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 8 - M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 3.7451 | 19.9417 | 50.5842 | 0.2506 | 31.7937       | 0.0915       | 31.8851    | 8.4973         | 0.0852        | 8.5825      |          | 25,834.00<br>82 | 25,834.00<br>82 | 1.1921 |     | 25,863.81<br>13 |
| Unmitigated | 3.7451 | 19.9417 | 50.5842 | 0.2506 | 31.7937       | 0.0915       | 31.8851    | 8.4973         | 0.0852        | 8.5825      |          | 25,834.00<br>82 | 25,834.00<br>82 | 1.1921 |     | 25,863.81<br>13 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 3,890.00                | 4,049.49 | 3520.45  | 14,284,518  | 14,284,518 |
| Total                 | 3,890.00                | 4,049.49 | 3,520.45 | 14,284,518  | 14,284,518 |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 8 - M - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |
| NaturalGas Unmitigated | 0.4267 | 3.6464 | 1.5517 | 0.0233 |               | 0.2948       | 0.2948     |                | 0.2948        | 0.2948      |          | 4,655.0104 | 4,655.0104 | 0.0892 | 0.0853 | 4,682.6728 |

## Desert Subregion 8 - M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39567.6        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</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/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 39.5676        | 0.4267        | 3.6464        | 1.5517        | 0.0233        |               | 0.2948        | 0.2948        |                | 0.2948        | 0.2948        |          | 4,655.0104        | 4,655.0104        | 0.0892        | 0.0853        | 4,682.6728        |
| <b>Total</b>          |                | <b>0.4267</b> | <b>3.6464</b> | <b>1.5517</b> | <b>0.0233</b> |               | <b>0.2948</b> | <b>0.2948</b> |                | <b>0.2948</b> | <b>0.2948</b> |          | <b>4,655.0104</b> | <b>4,655.0104</b> | <b>0.0892</b> | <b>0.0853</b> | <b>4,682.6728</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 8 - M - San Diego County, Winter

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| Mitigated   | 17.8954 | 6.8216 | 34.6979 | 0.0429 |               | 0.6997       | 0.6997     |                | 0.6997        | 0.6997      | 0.0000   | 8,295.433<br>9 | 8,295.433<br>9 | 0.2129 | 0.1510 | 8,345.761<br>2 |
| Unmitigated | 17.8954 | 6.8216 | 34.6979 | 0.0429 |               | 0.6997       | 0.6997     |                | 0.6997        | 0.6997      | 0.0000   | 8,295.433<br>9 | 8,295.433<br>9 | 0.2129 | 0.1510 | 8,345.761<br>2 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 1.2004         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 14.9843        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.7551         | 6.4528        | 2.7459         | 0.0412        |               | 0.5217        | 0.5217        |                | 0.5217        | 0.5217        | 0.0000        | 8,237.647<br>1         | 8,237.647<br>1         | 0.1579        | 0.1510        | 8,286.599<br>3         |
| Landscaping           | 0.9557         | 0.3688        | 31.9520        | 1.6900e-003   |               | 0.1780        | 0.1780        |                | 0.1780        | 0.1780        |               | 57.7868                | 57.7868                | 0.0550        |               | 59.1619                |
| <b>Total</b>          | <b>17.8954</b> | <b>6.8216</b> | <b>34.6979</b> | <b>0.0429</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6997</b> | <b>0.6997</b> | <b>0.0000</b> | <b>8,295.433<br/>9</b> | <b>8,295.433<br/>9</b> | <b>0.2129</b> | <b>0.1510</b> | <b>8,345.761<br/>2</b> |

## Desert Subregion 8 - M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 1.2004         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 14.9843        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.7551         | 6.4528        | 2.7459         | 0.0412        |               | 0.5217        | 0.5217        |                | 0.5217        | 0.5217        | 0.0000        | 8,237.647<br>1         | 8,237.647<br>1         | 0.1579        | 0.1510        | 8,286.599<br>3         |
| Landscaping           | 0.9557         | 0.3688        | 31.9520        | 1.6900e-003   |               | 0.1780        | 0.1780        |                | 0.1780        | 0.1780        |               | 57.7868                | 57.7868                | 0.0550        |               | 59.1619                |
| <b>Total</b>          | <b>17.8954</b> | <b>6.8216</b> | <b>34.6979</b> | <b>0.0429</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6997</b> | <b>0.6997</b> | <b>0.0000</b> | <b>8,295.433<br/>9</b> | <b>8,295.433<br/>9</b> | <b>0.2129</b> | <b>0.1510</b> | <b>8,345.761<br/>2</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 8 - M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 24 - UM - San Diego County, Summer

## Desert Subregion 24 - UM

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 153.00 | Dwelling Unit | 49.68       | 275,400.00         | 438        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Off-road Equipment -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday Rate

Woodstoves -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 24 - UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/27/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/26/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/25/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/11/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/12/2021 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/26/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/27/2021 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

## Desert Subregion 24 - UM - San Diego County, Summer

**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 2.7292  | 23.1945 | 20.1527 | 0.0384 | 0.8005        | 1.3072       | 2.1077     | 0.2145         | 1.2292        | 1.4437      | 0.0000   | 3,766.395<br>9 | 3,766.395<br>9 | 0.6891 | 0.0000 | 3,783.623<br>4 |
| 2020    | 2.4558  | 21.1144 | 19.5794 | 0.0381 | 0.8005        | 1.1298       | 1.9303     | 0.2145         | 1.0624        | 1.2769      | 0.0000   | 3,701.774<br>9 | 3,701.774<br>9 | 0.6767 | 0.0000 | 3,718.691<br>0 |
| 2021    | 31.6035 | 19.1808 | 19.1197 | 0.0378 | 0.8005        | 0.9664       | 1.7669     | 0.2145         | 0.9086        | 1.1231      | 0.0000   | 3,674.101<br>4 | 3,674.101<br>4 | 0.7191 | 0.0000 | 3,690.773<br>3 |
| Maximum | 31.6035 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

## Desert Subregion 24 - UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 2.7292  | 23.1945 | 20.1527 | 0.0384 | 0.8005        | 1.3072       | 2.1077     | 0.2145         | 1.2292        | 1.4437      | 0.0000   | 3,766.3959 | 3,766.3959 | 0.6891 | 0.0000 | 3,783.6234 |
| 2020    | 2.4558  | 21.1144 | 19.5794 | 0.0381 | 0.8005        | 1.1298       | 1.9303     | 0.2145         | 1.0624        | 1.2769      | 0.0000   | 3,701.7749 | 3,701.7749 | 0.6767 | 0.0000 | 3,718.6910 |
| 2021    | 31.6035 | 19.1808 | 19.1197 | 0.0378 | 0.8005        | 0.9664       | 1.7669     | 0.2145         | 0.9086        | 1.1231      | 0.0000   | 3,674.1014 | 3,674.1014 | 0.7191 | 0.0000 | 3,690.7733 |
| Maximum | 31.6035 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

[illegible]

## Desert Subregion 24 - UM - San Diego County, Summer

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

|              | ROG             | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|-----------------|----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day          |                |                 |               |                |                |                |                |                |                | lb/day            |                    |                    |               |               |                    |
| Area         | 240.8920        | 4.7178         | 301.6005        | 0.5243        |                | 40.5952        | 40.5952        |                | 40.5952        | 40.5952        | 4,249.0748        | 1,804.7285         | 6,053.8033         | 3.9428        | 0.3342        | 6,251.9720         |
| Energy       | 0.1678          | 1.4342         | 0.6103          | 9.1500e-003   |                | 0.1160         | 0.1160         |                | 0.1160         | 0.1160         |                   | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.5036          | 7.7030         | 20.6124         | 0.1035        | 12.5050        | 0.0359         | 12.5409        | 3.3421         | 0.0335         | 3.3756         |                   | 10,660.8348        | 10,660.8348        | 0.4678        |               | 10,672.5286        |
| <b>Total</b> | <b>242.5634</b> | <b>13.8549</b> | <b>322.8232</b> | <b>0.6370</b> | <b>12.5050</b> | <b>40.7471</b> | <b>53.2521</b> | <b>3.3421</b>  | <b>40.7447</b> | <b>44.0868</b> | <b>4,249.0748</b> | <b>14,296.4542</b> | <b>18,545.5290</b> | <b>4.4457</b> | <b>0.3678</b> | <b>18,766.2717</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     | lb/day          |                |                 |               |                |                |                |                |                |                | lb/day            |                    |                    |               |               |                    |
| Area         | 240.8920        | 4.7178         | 301.6005        | 0.5243        |                | 40.5952        | 40.5952        |                | 40.5952        | 40.5952        | 4,249.0748        | 1,804.7285         | 6,053.8033         | 3.9428        | 0.3342        | 6,251.9720         |
| Energy       | 0.1678          | 1.4342         | 0.6103          | 9.1500e-003   |                | 0.1160         | 0.1160         |                | 0.1160         | 0.1160         |                   | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.5036          | 7.7030         | 20.6124         | 0.1035        | 12.5050        | 0.0359         | 12.5409        | 3.3421         | 0.0335         | 3.3756         |                   | 10,660.8348        | 10,660.8348        | 0.4678        |               | 10,672.5286        |
| <b>Total</b> | <b>242.5634</b> | <b>13.8549</b> | <b>322.8232</b> | <b>0.6370</b> | <b>12.5050</b> | <b>40.7471</b> | <b>53.2521</b> | <b>3.3421</b>  | <b>40.7447</b> | <b>44.0868</b> | <b>4,249.0748</b> | <b>14,296.4542</b> | <b>18,545.5290</b> | <b>4.4457</b> | <b>0.3678</b> | <b>18,766.2717</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 2/9/2018  | 5             | 30       |                   |
| 2            | Grading               | Grading               | 2/10/2018  | 5/25/2018 | 5             | 75       |                   |
| 3            | Paving                | Paving                | 3/27/2021  | 6/11/2021 | 5             | 55       |                   |
| 4            | Building Construction | Building Construction | 5/26/2018  | 3/26/2021 | 5             | 740      |                   |
| 5            | Architectural Coating | Architectural Coating | 6/12/2021  | 8/27/2021 | 5             | 55       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 24 - UM - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 11.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 55.00              | 16.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 24 - UM - San Diego County, Summer

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.3 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.3 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.4 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        |          | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> |          | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0720        | 0.0501        | 0.5862        | 1.8900e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 188.1729        | 188.1729        | 5.2400e-003        |     | 188.3039        |
| <b>Total</b> | <b>0.0720</b> | <b>0.0501</b> | <b>0.5862</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>188.1729</b> | <b>188.1729</b> | <b>5.2400e-003</b> |     | <b>188.3039</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.4 Paving - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        | 0.0000        | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> | <b>0.0000</b> | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0720        | 0.0501        | 0.5862        | 1.8900e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 188.1729        | 188.1729        | 5.2400e-003        |     | 188.3039        |
| <b>Total</b> | <b>0.0720</b> | <b>0.0501</b> | <b>0.5862</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>188.1729</b> | <b>188.1729</b> | <b>5.2400e-003</b> |     | <b>188.3039</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0773        | 2.0068        | 0.5308        | 4.1200e-003   | 0.0980        | 0.0150        | 0.1130        | 0.0282         | 0.0144        | 0.0426        |          | 440.7218               | 440.7218               | 0.0361        |     | 441.6235               |
| Worker       | 0.3239        | 0.2501        | 2.7678        | 7.6300e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 760.1646               | 760.1646               | 0.0253        |     | 760.7973               |
| <b>Total</b> | <b>0.4012</b> | <b>2.2570</b> | <b>3.2986</b> | <b>0.0118</b> | <b>0.8005</b> | <b>0.0199</b> | <b>0.8204</b> | <b>0.2145</b>  | <b>0.0188</b> | <b>0.2334</b> |          | <b>1,200.886<br/>4</b> | <b>1,200.886<br/>4</b> | <b>0.0614</b> |     | <b>1,202.420<br/>8</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0773        | 2.0068        | 0.5308        | 4.1200e-003   | 0.0980        | 0.0150        | 0.1130        | 0.0282         | 0.0144        | 0.0426        |          | 440.7218               | 440.7218               | 0.0361        |     | 441.6235               |
| Worker       | 0.3239        | 0.2501        | 2.7678        | 7.6300e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 760.1646               | 760.1646               | 0.0253        |     | 760.7973               |
| <b>Total</b> | <b>0.4012</b> | <b>2.2570</b> | <b>3.2986</b> | <b>0.0118</b> | <b>0.8005</b> | <b>0.0199</b> | <b>0.8204</b> | <b>0.2145</b>  | <b>0.0188</b> | <b>0.2334</b> |          | <b>1,200.886<br/>4</b> | <b>1,200.886<br/>4</b> | <b>0.0614</b> |     | <b>1,202.420<br/>8</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0691        | 1.8920        | 0.4868        | 4.0800e-003   | 0.0980        | 0.0126        | 0.1105        | 0.0282         | 0.0120        | 0.0402        |          | 437.5710          | 437.5710          | 0.0348        |     | 438.4420          |
| Worker       | 0.2989        | 0.2238        | 2.5021        | 7.4000e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 737.2448          | 737.2448          | 0.0229        |     | 737.8179          |
| <b>Total</b> | <b>0.3680</b> | <b>2.1157</b> | <b>2.9889</b> | <b>0.0115</b> | <b>0.8005</b> | <b>0.0174</b> | <b>0.8179</b> | <b>0.2145</b>  | <b>0.0165</b> | <b>0.2310</b> |          | <b>1,174.8158</b> | <b>1,174.8158</b> | <b>0.0578</b> |     | <b>1,176.2599</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0691        | 1.8920        | 0.4868        | 4.0800e-003   | 0.0980        | 0.0126        | 0.1105        | 0.0282         | 0.0120        | 0.0402        |          | 437.5710               | 437.5710               | 0.0348        |     | 438.4420               |
| Worker       | 0.2989        | 0.2238        | 2.5021        | 7.4000e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 737.2448               | 737.2448               | 0.0229        |     | 737.8179               |
| <b>Total</b> | <b>0.3680</b> | <b>2.1157</b> | <b>2.9889</b> | <b>0.0115</b> | <b>0.8005</b> | <b>0.0174</b> | <b>0.8179</b> | <b>0.2145</b>  | <b>0.0165</b> | <b>0.2310</b> |          | <b>1,174.815<br/>8</b> | <b>1,174.815<br/>8</b> | <b>0.0578</b> |     | <b>1,176.259<br/>9</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0563        | 1.7263        | 0.4372        | 4.0500e-003   | 0.0980        | 8.0300e-003   | 0.1060        | 0.0282         | 7.6900e-003   | 0.0359        |          | 434.7475               | 434.7475               | 0.0330        |     | 435.5729               |
| Worker       | 0.2797        | 0.2021        | 2.2937        | 7.1600e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 713.9644               | 713.9644               | 0.0208        |     | 714.4836               |
| <b>Total</b> | <b>0.3360</b> | <b>1.9283</b> | <b>2.7309</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0128</b> | <b>0.8133</b> | <b>0.2145</b>  | <b>0.0121</b> | <b>0.2266</b> |          | <b>1,148.711<br/>8</b> | <b>1,148.711<br/>8</b> | <b>0.0538</b> |     | <b>1,150.056<br/>5</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0563        | 1.7263        | 0.4372        | 4.0500e-003   | 0.0980        | 8.0300e-003   | 0.1060        | 0.0282         | 7.6900e-003   | 0.0359        |          | 434.7475               | 434.7475               | 0.0330        |     | 435.5729               |
| Worker       | 0.2797        | 0.2021        | 2.2937        | 7.1600e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 713.9644               | 713.9644               | 0.0208        |     | 714.4836               |
| <b>Total</b> | <b>0.3360</b> | <b>1.9283</b> | <b>2.7309</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0128</b> | <b>0.8133</b> | <b>0.2145</b>  | <b>0.0121</b> | <b>0.2266</b> |          | <b>1,148.711<br/>8</b> | <b>1,148.711<br/>8</b> | <b>0.0538</b> |     | <b>1,150.056<br/>5</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0458        | 1.5649        | 0.3953        | 4.0000e-003   | 0.0980        | 3.1300e-003        | 0.1011        | 0.0282         | 3.0000e-003        | 0.0312        |          | 430.7701          | 430.7701          | 0.0317        |     | 431.5615          |
| Worker       | 0.2641        | 0.1838        | 2.1492        | 6.9200e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 689.9675          | 689.9675          | 0.0192        |     | 690.4475          |
| <b>Total</b> | <b>0.3099</b> | <b>1.7487</b> | <b>2.5445</b> | <b>0.0109</b> | <b>0.8005</b> | <b>7.8000e-003</b> | <b>0.8083</b> | <b>0.2145</b>  | <b>7.3000e-003</b> | <b>0.2218</b> |          | <b>1,120.7375</b> | <b>1,120.7375</b> | <b>0.0509</b> |     | <b>1,122.0090</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.5 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0458        | 1.5649        | 0.3953        | 4.0000e-003   | 0.0980        | 3.1300e-003        | 0.1011        | 0.0282         | 3.0000e-003        | 0.0312        |          | 430.7701               | 430.7701               | 0.0317        |     | 431.5615               |
| Worker       | 0.2641        | 0.1838        | 2.1492        | 6.9200e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 689.9675               | 689.9675               | 0.0192        |     | 690.4475               |
| <b>Total</b> | <b>0.3099</b> | <b>1.7487</b> | <b>2.5445</b> | <b>0.0109</b> | <b>0.8005</b> | <b>7.8000e-003</b> | <b>0.8083</b> | <b>0.2145</b>  | <b>7.3000e-003</b> | <b>0.2218</b> |          | <b>1,120.737<br/>5</b> | <b>1,120.737<br/>5</b> | <b>0.0509</b> |     | <b>1,122.009<br/>0</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0528        | 0.0368        | 0.4298        | 1.3800e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 137.9935        | 137.9935        | 3.8400e-003        |     | 138.0895        |
| <b>Total</b> | <b>0.0528</b> | <b>0.0368</b> | <b>0.4298</b> | <b>1.3800e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>137.9935</b> | <b>137.9935</b> | <b>3.8400e-003</b> |     | <b>138.0895</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**3.6 Architectural Coating - 2021****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0528        | 0.0368        | 0.4298        | 1.3800e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 137.9935        | 137.9935        | 3.8400e-003        |     | 138.0895        |
| <b>Total</b> | <b>0.0528</b> | <b>0.0368</b> | <b>0.4298</b> | <b>1.3800e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>137.9935</b> | <b>137.9935</b> | <b>3.8400e-003</b> |     | <b>138.0895</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 24 - UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 1.5036 | 7.7030 | 20.6124 | 0.1035 | 12.5050       | 0.0359       | 12.5409    | 3.3421         | 0.0335        | 3.3756      |          | 10,660.83<br>48 | 10,660.83<br>48 | 0.4678 |     | 10,672.52<br>86 |
| Unmitigated | 1.5036 | 7.7030 | 20.6124 | 0.1035 | 12.5050       | 0.0359       | 12.5409    | 3.3421         | 0.0335        | 3.3756      |          | 10,660.83<br>48 | 10,660.83<br>48 | 0.4678 |     | 10,672.52<br>86 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,530.00                | 1,592.73 | 1384.65  | 5,618,332   | 5,618,332  |
| Total                 | 1,530.00                | 1,592.73 | 1,384.65 | 5,618,332   | 5,618,332  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 24 - UM - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |
| NaturalGas Unmitigated | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |

## Desert Subregion 24 - UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15562.6        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15.5626        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 24 - UM - San Diego County, Summer

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 240.8920 | 4.7178 | 301.6005 | 0.5243 |               | 40.5952      | 40.5952    |                | 40.5952       | 40.5952     | 4,249.0748 | 1,804.7285 | 6,053.8033 | 3.9428 | 0.3342 | 6,251.9720 |
| Unmitigated | 240.8920 | 4.7178 | 301.6005 | 0.5243 |               | 40.5952      | 40.5952    |                | 40.5952       | 40.5952     | 4,249.0748 | 1,804.7285 | 6,053.8033 | 3.9428 | 0.3342 | 6,251.9720 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                   |                   |               |               |                   |
| Architectural Coating | 0.4721          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 234.1504        | 4.5727        | 289.0333        | 0.5237        |               | 40.5252        | 40.5252        |                | 40.5252        | 40.5252        | 4,249.0748        | 1,782.0000        | 6,031.0748        | 3.9212        | 0.3342        | 6,228.7027        |
| Landscaping           | 0.3759          | 0.1451        | 12.5672         | 6.7000e-004   |               | 0.0700         | 0.0700         |                | 0.0700         | 0.0700         |                   | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>240.8920</b> | <b>4.7178</b> | <b>301.6005</b> | <b>0.5243</b> |               | <b>40.5952</b> | <b>40.5952</b> |                | <b>40.5952</b> | <b>40.5952</b> | <b>4,249.0748</b> | <b>1,804.7285</b> | <b>6,053.8033</b> | <b>3.9428</b> | <b>0.3342</b> | <b>6,251.9720</b> |

## Desert Subregion 24 - UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                   |                   |               |               |                   |
| Architectural Coating | 0.4721          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 234.1504        | 4.5727        | 289.0333        | 0.5237        |               | 40.5252        | 40.5252        |                | 40.5252        | 40.5252        | 4,249.0748        | 1,782.0000        | 6,031.0748        | 3.9212        | 0.3342        | 6,228.7027        |
| Landscaping           | 0.3759          | 0.1451        | 12.5672         | 6.7000e-004   |               | 0.0700         | 0.0700         |                | 0.0700         | 0.0700         |                   | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>240.8920</b> | <b>4.7178</b> | <b>301.6005</b> | <b>0.5243</b> |               | <b>40.5952</b> | <b>40.5952</b> |                | <b>40.5952</b> | <b>40.5952</b> | <b>4,249.0748</b> | <b>1,804.7285</b> | <b>6,053.8033</b> | <b>3.9428</b> | <b>0.3342</b> | <b>6,251.9720</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 24 - UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 24 - M - San Diego County, Summer

## Desert Subregion 24 - M

### San Diego County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 153.00 | Dwelling Unit | 49.68       | 275,400.00         | 438        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Off-road Equipment -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday Rate

Woodstoves - Mitigation of 100% NG

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 24 - M - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/27/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/26/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/25/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/11/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/12/2021 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/26/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/27/2021 |
| tblFireplaces             | NumberGas                       | 84.15         | 153.00    |
| tblFireplaces             | NumberNoFireplace               | 15.30         | 0.00      |
| tblFireplaces             | NumberWood                      | 53.55         | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |

## Desert Subregion 24 - M - San Diego County, Summer

|                 |                    |      |       |
|-----------------|--------------------|------|-------|
| tblVehicleTrips | WD_TR              | 9.52 | 10.00 |
| tblWoodstoves   | NumberCatalytic    | 7.65 | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 7.65 | 0.00  |

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 2.7292  | 23.1945 | 20.1527 | 0.0384 | 0.8005        | 1.3072       | 2.1077     | 0.2145         | 1.2292        | 1.4437      | 0.0000   | 3,766.395<br>9 | 3,766.395<br>9 | 0.6891 | 0.0000 | 3,783.623<br>4 |
| 2020    | 2.4558  | 21.1144 | 19.5794 | 0.0381 | 0.8005        | 1.1298       | 1.9303     | 0.2145         | 1.0624        | 1.2769      | 0.0000   | 3,701.774<br>9 | 3,701.774<br>9 | 0.6767 | 0.0000 | 3,718.691<br>0 |
| 2021    | 31.6035 | 19.1808 | 19.1197 | 0.0378 | 0.8005        | 0.9664       | 1.7669     | 0.2145         | 0.9086        | 1.1231      | 0.0000   | 3,674.101<br>4 | 3,674.101<br>4 | 0.7191 | 0.0000 | 3,690.773<br>3 |
| Maximum | 31.6035 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

## Desert Subregion 24 - M - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 2.7292  | 23.1945 | 20.1527 | 0.0384 | 0.8005        | 1.3072       | 2.1077     | 0.2145         | 1.2292        | 1.4437      | 0.0000   | 3,766.3959 | 3,766.3959 | 0.6891 | 0.0000 | 3,783.6234 |
| 2020    | 2.4558  | 21.1144 | 19.5794 | 0.0381 | 0.8005        | 1.1298       | 1.9303     | 0.2145         | 1.0624        | 1.2769      | 0.0000   | 3,701.7749 | 3,701.7749 | 0.6767 | 0.0000 | 3,718.6910 |
| 2021    | 31.6035 | 19.1808 | 19.1197 | 0.0378 | 0.8005        | 0.9664       | 1.7669     | 0.2145         | 0.9086        | 1.1231      | 0.0000   | 3,674.1014 | 3,674.1014 | 0.7191 | 0.0000 | 3,690.7733 |
| Maximum | 31.6035 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

[illegible]

## Desert Subregion 24 - M - San Diego County, Summer

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.0386        | 2.6831         | 13.6472        | 0.0169        |                | 0.2752        | 0.2752         |                | 0.2752        | 0.2752        | 0.0000        | 3,262.7285         | 3,262.7285         | 0.0837        | 0.0594        | 3,282.5231         |
| Energy       | 0.1678        | 1.4342         | 0.6103         | 9.1500e-003   |                | 0.1160        | 0.1160         |                | 0.1160        | 0.1160        |               | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.5036        | 7.7030         | 20.6124        | 0.1035        | 12.5050        | 0.0359        | 12.5409        | 3.3421         | 0.0335        | 3.3756        |               | 10,660.8348        | 10,660.8348        | 0.4678        |               | 10,672.5286        |
| <b>Total</b> | <b>8.7100</b> | <b>11.8202</b> | <b>34.8699</b> | <b>0.1296</b> | <b>12.5050</b> | <b>0.4271</b> | <b>12.9321</b> | <b>3.3421</b>  | <b>0.4246</b> | <b>3.7668</b> | <b>0.0000</b> | <b>15,754.4542</b> | <b>15,754.4542</b> | <b>0.5866</b> | <b>0.0930</b> | <b>15,796.8227</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     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.0386        | 2.6831         | 13.6472        | 0.0169        |                | 0.2752        | 0.2752         |                | 0.2752        | 0.2752        | 0.0000        | 3,262.7285         | 3,262.7285         | 0.0837        | 0.0594        | 3,282.5231         |
| Energy       | 0.1678        | 1.4342         | 0.6103         | 9.1500e-003   |                | 0.1160        | 0.1160         |                | 0.1160        | 0.1160        |               | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.5036        | 7.7030         | 20.6124        | 0.1035        | 12.5050        | 0.0359        | 12.5409        | 3.3421         | 0.0335        | 3.3756        |               | 10,660.8348        | 10,660.8348        | 0.4678        |               | 10,672.5286        |
| <b>Total</b> | <b>8.7100</b> | <b>11.8202</b> | <b>34.8699</b> | <b>0.1296</b> | <b>12.5050</b> | <b>0.4271</b> | <b>12.9321</b> | <b>3.3421</b>  | <b>0.4246</b> | <b>3.7668</b> | <b>0.0000</b> | <b>15,754.4542</b> | <b>15,754.4542</b> | <b>0.5866</b> | <b>0.0930</b> | <b>15,796.8227</b> |

## Desert Subregion 24 - M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 2/9/2018  | 5             | 30       |                   |
| 2            | Grading               | Grading               | 2/10/2018  | 5/25/2018 | 5             | 75       |                   |
| 3            | Paving                | Paving                | 3/27/2021  | 6/11/2021 | 5             | 55       |                   |
| 4            | Building Construction | Building Construction | 5/26/2018  | 3/26/2021 | 5             | 740      |                   |
| 5            | Architectural Coating | Architectural Coating | 6/12/2021  | 8/27/2021 | 5             | 55       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 24 - M - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 11.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 55.00              | 16.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 24 - M - San Diego County, Summer

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.3 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.3 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.4 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        |          | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> |          | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0720        | 0.0501        | 0.5862        | 1.8900e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 188.1729        | 188.1729        | 5.2400e-003        |     | 188.3039        |
| <b>Total</b> | <b>0.0720</b> | <b>0.0501</b> | <b>0.5862</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>188.1729</b> | <b>188.1729</b> | <b>5.2400e-003</b> |     | <b>188.3039</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.4 Paving - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        | 0.0000        | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> | <b>0.0000</b> | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0720        | 0.0501        | 0.5862        | 1.8900e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 188.1729        | 188.1729        | 5.2400e-003        |     | 188.3039        |
| <b>Total</b> | <b>0.0720</b> | <b>0.0501</b> | <b>0.5862</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>188.1729</b> | <b>188.1729</b> | <b>5.2400e-003</b> |     | <b>188.3039</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0773        | 2.0068        | 0.5308        | 4.1200e-003   | 0.0980        | 0.0150        | 0.1130        | 0.0282         | 0.0144        | 0.0426        |          | 440.7218               | 440.7218               | 0.0361        |     | 441.6235               |
| Worker       | 0.3239        | 0.2501        | 2.7678        | 7.6300e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 760.1646               | 760.1646               | 0.0253        |     | 760.7973               |
| <b>Total</b> | <b>0.4012</b> | <b>2.2570</b> | <b>3.2986</b> | <b>0.0118</b> | <b>0.8005</b> | <b>0.0199</b> | <b>0.8204</b> | <b>0.2145</b>  | <b>0.0188</b> | <b>0.2334</b> |          | <b>1,200.886<br/>4</b> | <b>1,200.886<br/>4</b> | <b>0.0614</b> |     | <b>1,202.420<br/>8</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0773        | 2.0068        | 0.5308        | 4.1200e-003   | 0.0980        | 0.0150        | 0.1130        | 0.0282         | 0.0144        | 0.0426        |          | 440.7218               | 440.7218               | 0.0361        |     | 441.6235               |
| Worker       | 0.3239        | 0.2501        | 2.7678        | 7.6300e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 760.1646               | 760.1646               | 0.0253        |     | 760.7973               |
| <b>Total</b> | <b>0.4012</b> | <b>2.2570</b> | <b>3.2986</b> | <b>0.0118</b> | <b>0.8005</b> | <b>0.0199</b> | <b>0.8204</b> | <b>0.2145</b>  | <b>0.0188</b> | <b>0.2334</b> |          | <b>1,200.886<br/>4</b> | <b>1,200.886<br/>4</b> | <b>0.0614</b> |     | <b>1,202.420<br/>8</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0691        | 1.8920        | 0.4868        | 4.0800e-003   | 0.0980        | 0.0126        | 0.1105        | 0.0282         | 0.0120        | 0.0402        |          | 437.5710               | 437.5710               | 0.0348        |     | 438.4420               |
| Worker       | 0.2989        | 0.2238        | 2.5021        | 7.4000e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 737.2448               | 737.2448               | 0.0229        |     | 737.8179               |
| <b>Total</b> | <b>0.3680</b> | <b>2.1157</b> | <b>2.9889</b> | <b>0.0115</b> | <b>0.8005</b> | <b>0.0174</b> | <b>0.8179</b> | <b>0.2145</b>  | <b>0.0165</b> | <b>0.2310</b> |          | <b>1,174.815<br/>8</b> | <b>1,174.815<br/>8</b> | <b>0.0578</b> |     | <b>1,176.259<br/>9</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0691        | 1.8920        | 0.4868        | 4.0800e-003   | 0.0980        | 0.0126        | 0.1105        | 0.0282         | 0.0120        | 0.0402        |          | 437.5710               | 437.5710               | 0.0348        |     | 438.4420               |
| Worker       | 0.2989        | 0.2238        | 2.5021        | 7.4000e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 737.2448               | 737.2448               | 0.0229        |     | 737.8179               |
| <b>Total</b> | <b>0.3680</b> | <b>2.1157</b> | <b>2.9889</b> | <b>0.0115</b> | <b>0.8005</b> | <b>0.0174</b> | <b>0.8179</b> | <b>0.2145</b>  | <b>0.0165</b> | <b>0.2310</b> |          | <b>1,174.815<br/>8</b> | <b>1,174.815<br/>8</b> | <b>0.0578</b> |     | <b>1,176.259<br/>9</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0563        | 1.7263        | 0.4372        | 4.0500e-003   | 0.0980        | 8.0300e-003   | 0.1060        | 0.0282         | 7.6900e-003   | 0.0359        |          | 434.7475               | 434.7475               | 0.0330        |     | 435.5729               |
| Worker       | 0.2797        | 0.2021        | 2.2937        | 7.1600e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 713.9644               | 713.9644               | 0.0208        |     | 714.4836               |
| <b>Total</b> | <b>0.3360</b> | <b>1.9283</b> | <b>2.7309</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0128</b> | <b>0.8133</b> | <b>0.2145</b>  | <b>0.0121</b> | <b>0.2266</b> |          | <b>1,148.711<br/>8</b> | <b>1,148.711<br/>8</b> | <b>0.0538</b> |     | <b>1,150.056<br/>5</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0563        | 1.7263        | 0.4372        | 4.0500e-003   | 0.0980        | 8.0300e-003   | 0.1060        | 0.0282         | 7.6900e-003   | 0.0359        |          | 434.7475               | 434.7475               | 0.0330        |     | 435.5729               |
| Worker       | 0.2797        | 0.2021        | 2.2937        | 7.1600e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 713.9644               | 713.9644               | 0.0208        |     | 714.4836               |
| <b>Total</b> | <b>0.3360</b> | <b>1.9283</b> | <b>2.7309</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0128</b> | <b>0.8133</b> | <b>0.2145</b>  | <b>0.0121</b> | <b>0.2266</b> |          | <b>1,148.711<br/>8</b> | <b>1,148.711<br/>8</b> | <b>0.0538</b> |     | <b>1,150.056<br/>5</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0458        | 1.5649        | 0.3953        | 4.0000e-003   | 0.0980        | 3.1300e-003        | 0.1011        | 0.0282         | 3.0000e-003        | 0.0312        |          | 430.7701          | 430.7701          | 0.0317        |     | 431.5615          |
| Worker       | 0.2641        | 0.1838        | 2.1492        | 6.9200e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 689.9675          | 689.9675          | 0.0192        |     | 690.4475          |
| <b>Total</b> | <b>0.3099</b> | <b>1.7487</b> | <b>2.5445</b> | <b>0.0109</b> | <b>0.8005</b> | <b>7.8000e-003</b> | <b>0.8083</b> | <b>0.2145</b>  | <b>7.3000e-003</b> | <b>0.2218</b> |          | <b>1,120.7375</b> | <b>1,120.7375</b> | <b>0.0509</b> |     | <b>1,122.0090</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.5 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0458        | 1.5649        | 0.3953        | 4.0000e-003   | 0.0980        | 3.1300e-003        | 0.1011        | 0.0282         | 3.0000e-003        | 0.0312        |          | 430.7701          | 430.7701          | 0.0317        |     | 431.5615          |
| Worker       | 0.2641        | 0.1838        | 2.1492        | 6.9200e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 689.9675          | 689.9675          | 0.0192        |     | 690.4475          |
| <b>Total</b> | <b>0.3099</b> | <b>1.7487</b> | <b>2.5445</b> | <b>0.0109</b> | <b>0.8005</b> | <b>7.8000e-003</b> | <b>0.8083</b> | <b>0.2145</b>  | <b>7.3000e-003</b> | <b>0.2218</b> |          | <b>1,120.7375</b> | <b>1,120.7375</b> | <b>0.0509</b> |     | <b>1,122.0090</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0528        | 0.0368        | 0.4298        | 1.3800e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 137.9935        | 137.9935        | 3.8400e-003        |     | 138.0895        |
| <b>Total</b> | <b>0.0528</b> | <b>0.0368</b> | <b>0.4298</b> | <b>1.3800e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>137.9935</b> | <b>137.9935</b> | <b>3.8400e-003</b> |     | <b>138.0895</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**3.6 Architectural Coating - 2021****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0528        | 0.0368        | 0.4298        | 1.3800e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 137.9935        | 137.9935        | 3.8400e-003        |     | 138.0895        |
| <b>Total</b> | <b>0.0528</b> | <b>0.0368</b> | <b>0.4298</b> | <b>1.3800e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>137.9935</b> | <b>137.9935</b> | <b>3.8400e-003</b> |     | <b>138.0895</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 24 - M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 1.5036 | 7.7030 | 20.6124 | 0.1035 | 12.5050       | 0.0359       | 12.5409    | 3.3421         | 0.0335        | 3.3756      |          | 10,660.83<br>48 | 10,660.83<br>48 | 0.4678 |     | 10,672.52<br>86 |
| Unmitigated | 1.5036 | 7.7030 | 20.6124 | 0.1035 | 12.5050       | 0.0359       | 12.5409    | 3.3421         | 0.0335        | 3.3756      |          | 10,660.83<br>48 | 10,660.83<br>48 | 0.4678 |     | 10,672.52<br>86 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,530.00                | 1,592.73 | 1384.65  | 5,618,332   | 5,618,332  |
| Total                 | 1,530.00                | 1,592.73 | 1,384.65 | 5,618,332   | 5,618,332  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 24 - M - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |
| NaturalGas Unmitigated | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |

## Desert Subregion 24 - M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15562.6        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15.5626        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 24 - M - San Diego County, Summer

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 7.0386 | 2.6831 | 13.6472 | 0.0169 |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 3,262.7285 | 3,262.7285 | 0.0837 | 0.0594 | 3,282.5231 |
| Unmitigated | 7.0386 | 2.6831 | 13.6472 | 0.0169 |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 3,262.7285 | 3,262.7285 | 0.0837 | 0.0594 | 3,282.5231 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.4721        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.2970        | 2.5380        | 1.0800         | 0.0162        |               | 0.2052        | 0.2052        |                | 0.2052        | 0.2052        | 0.0000        | 3,240.0000        | 3,240.0000        | 0.0621        | 0.0594        | 3,259.2537        |
| Landscaping           | 0.3759        | 0.1451        | 12.5672        | 6.7000e-004   |               | 0.0700        | 0.0700        |                | 0.0700        | 0.0700        |               | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>7.0386</b> | <b>2.6831</b> | <b>13.6472</b> | <b>0.0169</b> |               | <b>0.2752</b> | <b>0.2752</b> |                | <b>0.2752</b> | <b>0.2752</b> | <b>0.0000</b> | <b>3,262.7285</b> | <b>3,262.7285</b> | <b>0.0837</b> | <b>0.0594</b> | <b>3,282.5231</b> |

## Desert Subregion 24 - M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 0.4721        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 5.8936        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.2970        | 2.5380        | 1.0800         | 0.0162        |               | 0.2052        | 0.2052        |                | 0.2052        | 0.2052        | 0.0000        | 3,240.000<br>0         | 3,240.000<br>0         | 0.0621        | 0.0594        | 3,259.253<br>7         |
| Landscaping           | 0.3759        | 0.1451        | 12.5672        | 6.7000e-004   |               | 0.0700        | 0.0700        |                | 0.0700        | 0.0700        |               | 22.7285                | 22.7285                | 0.0216        |               | 23.2694                |
| <b>Total</b>          | <b>7.0386</b> | <b>2.6831</b> | <b>13.6472</b> | <b>0.0169</b> |               | <b>0.2752</b> | <b>0.2752</b> |                | <b>0.2752</b> | <b>0.2752</b> | <b>0.0000</b> | <b>3,262.728<br/>5</b> | <b>3,262.728<br/>5</b> | <b>0.0837</b> | <b>0.0594</b> | <b>3,282.523<br/>1</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 24 - M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 24 - UM - San Diego County, Winter

## Desert Subregion 24 - UM

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 153.00 | Dwelling Unit | 49.68       | 275,400.00         | 438        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Off-road Equipment -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday Rate

Woodstoves -

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 24 - UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/27/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/26/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/25/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/11/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/12/2021 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/26/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/27/2021 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

## Desert Subregion 24 - UM - San Diego County, Winter

**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 2.7794  | 23.2203 | 20.0224 | 0.0378 | 0.8005        | 1.3075       | 2.1080     | 0.2145         | 1.2294        | 1.4439      | 0.0000   | 3,708.930<br>1 | 3,708.930<br>1 | 0.6901 | 0.0000 | 3,726.181<br>3 |
| 2020    | 2.5033  | 21.1349 | 19.4546 | 0.0376 | 0.8005        | 1.1300       | 1.9305     | 0.2145         | 1.0626        | 1.2771      | 0.0000   | 3,645.635<br>4 | 3,645.635<br>4 | 0.6775 | 0.0000 | 3,662.573<br>6 |
| 2021    | 31.6120 | 19.1966 | 18.9975 | 0.0373 | 0.8005        | 0.9666       | 1.7670     | 0.2145         | 0.9087        | 1.1232      | 0.0000   | 3,619.502<br>6 | 3,619.502<br>6 | 0.7188 | 0.0000 | 3,636.195<br>6 |
| Maximum | 31.6120 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

## Desert Subregion 24 - UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 2.7794  | 23.2203 | 20.0224 | 0.0378 | 0.8005        | 1.3075       | 2.1080     | 0.2145         | 1.2294        | 1.4439      | 0.0000   | 3,708.9301 | 3,708.9301 | 0.6901 | 0.0000 | 3,726.1813 |
| 2020    | 2.5033  | 21.1349 | 19.4546 | 0.0376 | 0.8005        | 1.1300       | 1.9305     | 0.2145         | 1.0626        | 1.2771      | 0.0000   | 3,645.6354 | 3,645.6354 | 0.6775 | 0.0000 | 3,662.5736 |
| 2021    | 31.6120 | 19.1966 | 18.9975 | 0.0373 | 0.8005        | 0.9666       | 1.7670     | 0.2145         | 0.9087        | 1.1232      | 0.0000   | 3,619.5026 | 3,619.5026 | 0.7188 | 0.0000 | 3,636.1956 |
| Maximum | 31.6120 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

[illegible]

## Desert Subregion 24 - UM - San Diego County, Winter

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

|              | ROG             | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|-----------------|----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day          |                |                 |               |                |                |                |                |                |                | lb/day            |                    |                    |               |               |                    |
| Area         | 240.8920        | 4.7178         | 301.6005        | 0.5243        |                | 40.5952        | 40.5952        |                | 40.5952        | 40.5952        | 4,249.0748        | 1,804.7285         | 6,053.8033         | 3.9428        | 0.3342        | 6,251.9720         |
| Energy       | 0.1678          | 1.4342         | 0.6103          | 9.1500e-003   |                | 0.1160         | 0.1160         |                | 0.1160         | 0.1160         |                   | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.4730          | 7.8434         | 19.8956         | 0.0986        | 12.5050        | 0.0360         | 12.5409        | 3.3421         | 0.0335         | 3.3757         |                   | 10,160.9338        | 10,160.9338        | 0.4689        |               | 10,172.6559        |
| <b>Total</b> | <b>242.5328</b> | <b>13.9954</b> | <b>322.1064</b> | <b>0.6320</b> | <b>12.5050</b> | <b>40.7472</b> | <b>53.2521</b> | <b>3.3421</b>  | <b>40.7447</b> | <b>44.0868</b> | <b>4,249.0748</b> | <b>13,796.5533</b> | <b>18,045.6281</b> | <b>4.4468</b> | <b>0.3678</b> | <b>18,266.3989</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     | lb/day          |                |                 |               |                |                |                |                |                |                | lb/day            |                    |                    |               |               |                    |
| Area         | 240.8920        | 4.7178         | 301.6005        | 0.5243        |                | 40.5952        | 40.5952        |                | 40.5952        | 40.5952        | 4,249.0748        | 1,804.7285         | 6,053.8033         | 3.9428        | 0.3342        | 6,251.9720         |
| Energy       | 0.1678          | 1.4342         | 0.6103          | 9.1500e-003   |                | 0.1160         | 0.1160         |                | 0.1160         | 0.1160         |                   | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.4730          | 7.8434         | 19.8956         | 0.0986        | 12.5050        | 0.0360         | 12.5409        | 3.3421         | 0.0335         | 3.3757         |                   | 10,160.9338        | 10,160.9338        | 0.4689        |               | 10,172.6559        |
| <b>Total</b> | <b>242.5328</b> | <b>13.9954</b> | <b>322.1064</b> | <b>0.6320</b> | <b>12.5050</b> | <b>40.7472</b> | <b>53.2521</b> | <b>3.3421</b>  | <b>40.7447</b> | <b>44.0868</b> | <b>4,249.0748</b> | <b>13,796.5533</b> | <b>18,045.6281</b> | <b>4.4468</b> | <b>0.3678</b> | <b>18,266.3989</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 2/9/2018  | 5             | 30       |                   |
| 2            | Grading               | Grading               | 2/10/2018  | 5/25/2018 | 5             | 75       |                   |
| 3            | Paving                | Paving                | 3/27/2021  | 6/11/2021 | 5             | 55       |                   |
| 4            | Building Construction | Building Construction | 5/26/2018  | 3/26/2021 | 5             | 740      |                   |
| 5            | Architectural Coating | Architectural Coating | 6/12/2021  | 8/27/2021 | 5             | 55       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 24 - UM - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 11.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 55.00              | 16.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 24 - UM - San Diego County, Winter

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.3 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.4284        | 6,244.4284        | 1.9440        |     | 6,293.0278        |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.4284</b> | <b>6,244.4284</b> | <b>1.9440</b> |     | <b>6,293.0278</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.3 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.4 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        |          | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> |          | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0837        | 0.0563        | 0.5399        | 1.7700e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 176.5693        | 176.5693        | 4.9000e-003        |     | 176.6919        |
| <b>Total</b> | <b>0.0837</b> | <b>0.0563</b> | <b>0.5399</b> | <b>1.7700e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>176.5693</b> | <b>176.5693</b> | <b>4.9000e-003</b> |     | <b>176.6919</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.4 Paving - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        | 0.0000        | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> | <b>0.0000</b> | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0837        | 0.0563        | 0.5399        | 1.7700e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 176.5693        | 176.5693        | 4.9000e-003        |     | 176.6919        |
| <b>Total</b> | <b>0.0837</b> | <b>0.0563</b> | <b>0.5399</b> | <b>1.7700e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>176.5693</b> | <b>176.5693</b> | <b>4.9000e-003</b> |     | <b>176.6919</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0808        | 2.0069        | 0.5905        | 4.0100e-003   | 0.0980        | 0.0153        | 0.1132        | 0.0282         | 0.0146        | 0.0428        |          | 428.7348               | 428.7348               | 0.0385        |     | 429.6973               |
| Worker       | 0.3742        | 0.2808        | 2.5723        | 7.1600e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 713.3508               | 713.3508               | 0.0238        |     | 713.9466               |
| <b>Total</b> | <b>0.4549</b> | <b>2.2876</b> | <b>3.1628</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0201</b> | <b>0.8206</b> | <b>0.2145</b>  | <b>0.0191</b> | <b>0.2336</b> |          | <b>1,142.085<br/>5</b> | <b>1,142.085<br/>5</b> | <b>0.0623</b> |     | <b>1,143.643<br/>9</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0808        | 2.0069        | 0.5905        | 4.0100e-003   | 0.0980        | 0.0153        | 0.1132        | 0.0282         | 0.0146        | 0.0428        |          | 428.7348               | 428.7348               | 0.0385        |     | 429.6973               |
| Worker       | 0.3742        | 0.2808        | 2.5723        | 7.1600e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 713.3508               | 713.3508               | 0.0238        |     | 713.9466               |
| <b>Total</b> | <b>0.4549</b> | <b>2.2876</b> | <b>3.1628</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0201</b> | <b>0.8206</b> | <b>0.2145</b>  | <b>0.0191</b> | <b>0.2336</b> |          | <b>1,142.085<br/>5</b> | <b>1,142.085<br/>5</b> | <b>0.0623</b> |     | <b>1,143.643<br/>9</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0722        | 1.8904        | 0.5428        | 3.9700e-003   | 0.0980        | 0.0128        | 0.1108        | 0.0282         | 0.0123        | 0.0405        |          | 425.5448               | 425.5448               | 0.0372        |     | 426.4742               |
| Worker       | 0.3460        | 0.2512        | 2.3158        | 6.9400e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 691.8051               | 691.8051               | 0.0215        |     | 692.3436               |
| <b>Total</b> | <b>0.4182</b> | <b>2.1415</b> | <b>2.8586</b> | <b>0.0109</b> | <b>0.8005</b> | <b>0.0176</b> | <b>0.8181</b> | <b>0.2145</b>  | <b>0.0167</b> | <b>0.2312</b> |          | <b>1,117.349<br/>9</b> | <b>1,117.349<br/>9</b> | <b>0.0587</b> |     | <b>1,118.817<br/>8</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0722        | 1.8904        | 0.5428        | 3.9700e-003   | 0.0980        | 0.0128        | 0.1108        | 0.0282         | 0.0123        | 0.0405        |          | 425.5448               | 425.5448               | 0.0372        |     | 426.4742               |
| Worker       | 0.3460        | 0.2512        | 2.3158        | 6.9400e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 691.8051               | 691.8051               | 0.0215        |     | 692.3436               |
| <b>Total</b> | <b>0.4182</b> | <b>2.1415</b> | <b>2.8586</b> | <b>0.0109</b> | <b>0.8005</b> | <b>0.0176</b> | <b>0.8181</b> | <b>0.2145</b>  | <b>0.0167</b> | <b>0.2312</b> |          | <b>1,117.349<br/>9</b> | <b>1,117.349<br/>9</b> | <b>0.0587</b> |     | <b>1,118.817<br/>8</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0590        | 1.7221        | 0.4879        | 3.9400e-003   | 0.0980        | 8.2000e-003   | 0.1062        | 0.0282         | 7.8500e-003   | 0.0361        |          | 422.6229               | 422.6229               | 0.0352        |     | 423.5028               |
| Worker       | 0.3244        | 0.2268        | 2.1182        | 6.7200e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 669.9495               | 669.9495               | 0.0195        |     | 670.4363               |
| <b>Total</b> | <b>0.3834</b> | <b>1.9488</b> | <b>2.6061</b> | <b>0.0107</b> | <b>0.8005</b> | <b>0.0129</b> | <b>0.8134</b> | <b>0.2145</b>  | <b>0.0122</b> | <b>0.2267</b> |          | <b>1,092.572<br/>4</b> | <b>1,092.572<br/>4</b> | <b>0.0547</b> |     | <b>1,093.939<br/>1</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0590        | 1.7221        | 0.4879        | 3.9400e-003   | 0.0980        | 8.2000e-003   | 0.1062        | 0.0282         | 7.8500e-003   | 0.0361        |          | 422.6229               | 422.6229               | 0.0352        |     | 423.5028               |
| Worker       | 0.3244        | 0.2268        | 2.1182        | 6.7200e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 669.9495               | 669.9495               | 0.0195        |     | 670.4363               |
| <b>Total</b> | <b>0.3834</b> | <b>1.9488</b> | <b>2.6061</b> | <b>0.0107</b> | <b>0.8005</b> | <b>0.0129</b> | <b>0.8134</b> | <b>0.2145</b>  | <b>0.0122</b> | <b>0.2267</b> |          | <b>1,092.572<br/>4</b> | <b>1,092.572<br/>4</b> | <b>0.0547</b> |     | <b>1,093.939<br/>1</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0483        | 1.5583        | 0.4427        | 3.8900e-003   | 0.0980        | 3.2700e-003        | 0.1012        | 0.0282         | 3.1300e-003        | 0.0313        |          | 418.7178               | 418.7178               | 0.0337        |     | 419.5611               |
| Worker       | 0.3068        | 0.2062        | 1.9796        | 6.4900e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 647.4208               | 647.4208               | 0.0180        |     | 647.8703               |
| <b>Total</b> | <b>0.3551</b> | <b>1.7645</b> | <b>2.4223</b> | <b>0.0104</b> | <b>0.8005</b> | <b>7.9400e-003</b> | <b>0.8084</b> | <b>0.2145</b>  | <b>7.4300e-003</b> | <b>0.2219</b> |          | <b>1,066.138<br/>7</b> | <b>1,066.138<br/>7</b> | <b>0.0517</b> |     | <b>1,067.431<br/>3</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.5 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0483        | 1.5583        | 0.4427        | 3.8900e-003   | 0.0980        | 3.2700e-003        | 0.1012        | 0.0282         | 3.1300e-003        | 0.0313        |          | 418.7178               | 418.7178               | 0.0337        |     | 419.5611               |
| Worker       | 0.3068        | 0.2062        | 1.9796        | 6.4900e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 647.4208               | 647.4208               | 0.0180        |     | 647.8703               |
| <b>Total</b> | <b>0.3551</b> | <b>1.7645</b> | <b>2.4223</b> | <b>0.0104</b> | <b>0.8005</b> | <b>7.9400e-003</b> | <b>0.8084</b> | <b>0.2145</b>  | <b>7.4300e-003</b> | <b>0.2219</b> |          | <b>1,066.138<br/>7</b> | <b>1,066.138<br/>7</b> | <b>0.0517</b> |     | <b>1,067.431<br/>3</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0614        | 0.0413        | 0.3959        | 1.3000e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 129.4842        | 129.4842        | 3.6000e-003        |     | 129.5741        |
| <b>Total</b> | <b>0.0614</b> | <b>0.0413</b> | <b>0.3959</b> | <b>1.3000e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>129.4842</b> | <b>129.4842</b> | <b>3.6000e-003</b> |     | <b>129.5741</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**3.6 Architectural Coating - 2021****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0614        | 0.0413        | 0.3959        | 1.3000e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 129.4842        | 129.4842        | 3.6000e-003        |     | 129.5741        |
| <b>Total</b> | <b>0.0614</b> | <b>0.0413</b> | <b>0.3959</b> | <b>1.3000e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>129.4842</b> | <b>129.4842</b> | <b>3.6000e-003</b> |     | <b>129.5741</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 24 - UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 1.4730 | 7.8434 | 19.8956 | 0.0986 | 12.5050       | 0.0360       | 12.5409    | 3.3421         | 0.0335        | 3.3757      |          | 10,160.9338 | 10,160.9338 | 0.4689 |     | 10,172.6559 |
| Unmitigated | 1.4730 | 7.8434 | 19.8956 | 0.0986 | 12.5050       | 0.0360       | 12.5409    | 3.3421         | 0.0335        | 3.3757      |          | 10,160.9338 | 10,160.9338 | 0.4689 |     | 10,172.6559 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,530.00                | 1,592.73 | 1384.65  | 5,618,332   | 5,618,332  |
| Total                 | 1,530.00                | 1,592.73 | 1,384.65 | 5,618,332   | 5,618,332  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 24 - UM - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |
| NaturalGas Unmitigated | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |

## Desert Subregion 24 - UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15562.6        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15.5626        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 24 - UM - San Diego County, Winter

|             | ROG      | NOx    | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|------------|--------|--------|------------|
| Category    | lb/day   |        |          |        |               |              |            |                |               |             | lb/day     |            |            |        |        |            |
| Mitigated   | 240.8920 | 4.7178 | 301.6005 | 0.5243 |               | 40.5952      | 40.5952    |                | 40.5952       | 40.5952     | 4,249.0748 | 1,804.7285 | 6,053.8033 | 3.9428 | 0.3342 | 6,251.9720 |
| Unmitigated | 240.8920 | 4.7178 | 301.6005 | 0.5243 |               | 40.5952      | 40.5952    |                | 40.5952       | 40.5952     | 4,249.0748 | 1,804.7285 | 6,053.8033 | 3.9428 | 0.3342 | 6,251.9720 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                   |                   |               |               |                   |
| Architectural Coating | 0.4721          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 234.1504        | 4.5727        | 289.0333        | 0.5237        |               | 40.5252        | 40.5252        |                | 40.5252        | 40.5252        | 4,249.0748        | 1,782.0000        | 6,031.0748        | 3.9212        | 0.3342        | 6,228.7027        |
| Landscaping           | 0.3759          | 0.1451        | 12.5672         | 6.7000e-004   |               | 0.0700         | 0.0700         |                | 0.0700         | 0.0700         |                   | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>240.8920</b> | <b>4.7178</b> | <b>301.6005</b> | <b>0.5243</b> |               | <b>40.5952</b> | <b>40.5952</b> |                | <b>40.5952</b> | <b>40.5952</b> | <b>4,249.0748</b> | <b>1,804.7285</b> | <b>6,053.8033</b> | <b>3.9428</b> | <b>0.3342</b> | <b>6,251.9720</b> |

## Desert Subregion 24 - UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG             | NOx           | CO              | SO2           | Fugitive PM10 | Exhaust PM10   | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5  | PM2.5 Total    | Bio- CO2          | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day          |               |                 |               |               |                |                |                |                |                | lb/day            |                   |                   |               |               |                   |
| Architectural Coating | 0.4721          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936          |               |                 |               |               | 0.0000         | 0.0000         |                | 0.0000         | 0.0000         |                   |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 234.1504        | 4.5727        | 289.0333        | 0.5237        |               | 40.5252        | 40.5252        |                | 40.5252        | 40.5252        | 4,249.0748        | 1,782.0000        | 6,031.0748        | 3.9212        | 0.3342        | 6,228.7027        |
| Landscaping           | 0.3759          | 0.1451        | 12.5672         | 6.7000e-004   |               | 0.0700         | 0.0700         |                | 0.0700         | 0.0700         |                   | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>240.8920</b> | <b>4.7178</b> | <b>301.6005</b> | <b>0.5243</b> |               | <b>40.5952</b> | <b>40.5952</b> |                | <b>40.5952</b> | <b>40.5952</b> | <b>4,249.0748</b> | <b>1,804.7285</b> | <b>6,053.8033</b> | <b>3.9428</b> | <b>0.3342</b> | <b>6,251.9720</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 24 - UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Desert Subregion 24 - M - San Diego County, Winter

## Desert Subregion 24 - M

### San Diego County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 153.00 | Dwelling Unit | 49.68       | 275,400.00         | 438        |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 15                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Off-road Equipment -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday Rate

Woodstoves - Mitigation of 100% NG

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Desert Subregion 24 - M - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 8/27/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 3/26/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/25/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/11/2021 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 6/12/2021 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/26/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 3/27/2021 |
| tblFireplaces             | NumberGas                       | 84.15         | 153.00    |
| tblFireplaces             | NumberNoFireplace               | 15.30         | 0.00      |
| tblFireplaces             | NumberWood                      | 53.55         | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |

## Desert Subregion 24 - M - San Diego County, Winter

|                 |                    |      |       |
|-----------------|--------------------|------|-------|
| tblVehicleTrips | WD_TR              | 9.52 | 10.00 |
| tblWoodstoves   | NumberCatalytic    | 7.65 | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 7.65 | 0.00  |

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 2.7794  | 23.2203 | 20.0224 | 0.0378 | 0.8005        | 1.3075       | 2.1080     | 0.2145         | 1.2294        | 1.4439      | 0.0000   | 3,708.9301 | 3,708.9301 | 0.6901 | 0.0000 | 3,726.1813 |
| 2020    | 2.5033  | 21.1349 | 19.4546 | 0.0376 | 0.8005        | 1.1300       | 1.9305     | 0.2145         | 1.0626        | 1.2771      | 0.0000   | 3,645.6354 | 3,645.6354 | 0.6775 | 0.0000 | 3,662.5736 |
| 2021    | 31.6120 | 19.1966 | 18.9975 | 0.0373 | 0.8005        | 0.9666       | 1.7670     | 0.2145         | 0.9087        | 1.1232      | 0.0000   | 3,619.5026 | 3,619.5026 | 0.7188 | 0.0000 | 3,636.1956 |
| Maximum | 31.6120 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

## Desert Subregion 24 - M - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 2.7794  | 23.2203 | 20.0224 | 0.0378 | 0.8005        | 1.3075       | 2.1080     | 0.2145         | 1.2294        | 1.4439      | 0.0000   | 3,708.9301 | 3,708.9301 | 0.6901 | 0.0000 | 3,726.1813 |
| 2020    | 2.5033  | 21.1349 | 19.4546 | 0.0376 | 0.8005        | 1.1300       | 1.9305     | 0.2145         | 1.0626        | 1.2771      | 0.0000   | 3,645.6354 | 3,645.6354 | 0.6775 | 0.0000 | 3,662.5736 |
| 2021    | 31.6120 | 19.1966 | 18.9975 | 0.0373 | 0.8005        | 0.9666       | 1.7670     | 0.2145         | 0.9087        | 1.1232      | 0.0000   | 3,619.5026 | 3,619.5026 | 0.7188 | 0.0000 | 3,636.1956 |
| Maximum | 31.6120 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

[illegible]

## Desert Subregion 24 - M - San Diego County, Winter

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.0386        | 2.6831         | 13.6472        | 0.0169        |                | 0.2752        | 0.2752         |                | 0.2752        | 0.2752        | 0.0000        | 3,262.7285         | 3,262.7285         | 0.0837        | 0.0594        | 3,282.5231         |
| Energy       | 0.1678        | 1.4342         | 0.6103         | 9.1500e-003   |                | 0.1160        | 0.1160         |                | 0.1160        | 0.1160        |               | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.4730        | 7.8434         | 19.8956        | 0.0986        | 12.5050        | 0.0360        | 12.5409        | 3.3421         | 0.0335        | 3.3757        |               | 10,160.9338        | 10,160.9338        | 0.4689        |               | 10,172.6559        |
| <b>Total</b> | <b>8.6794</b> | <b>11.9607</b> | <b>34.1531</b> | <b>0.1246</b> | <b>12.5050</b> | <b>0.4271</b> | <b>12.9321</b> | <b>3.3421</b>  | <b>0.4247</b> | <b>3.7668</b> | <b>0.0000</b> | <b>15,254.5533</b> | <b>15,254.5533</b> | <b>0.5877</b> | <b>0.0930</b> | <b>15,296.9500</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     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 7.0386        | 2.6831         | 13.6472        | 0.0169        |                | 0.2752        | 0.2752         |                | 0.2752        | 0.2752        | 0.0000        | 3,262.7285         | 3,262.7285         | 0.0837        | 0.0594        | 3,282.5231         |
| Energy       | 0.1678        | 1.4342         | 0.6103         | 9.1500e-003   |                | 0.1160        | 0.1160         |                | 0.1160        | 0.1160        |               | 1,830.8910         | 1,830.8910         | 0.0351        | 0.0336        | 1,841.7710         |
| Mobile       | 1.4730        | 7.8434         | 19.8956        | 0.0986        | 12.5050        | 0.0360        | 12.5409        | 3.3421         | 0.0335        | 3.3757        |               | 10,160.9338        | 10,160.9338        | 0.4689        |               | 10,172.6559        |
| <b>Total</b> | <b>8.6794</b> | <b>11.9607</b> | <b>34.1531</b> | <b>0.1246</b> | <b>12.5050</b> | <b>0.4271</b> | <b>12.9321</b> | <b>3.3421</b>  | <b>0.4247</b> | <b>3.7668</b> | <b>0.0000</b> | <b>15,254.5533</b> | <b>15,254.5533</b> | <b>0.5877</b> | <b>0.0930</b> | <b>15,296.9500</b> |

## Desert Subregion 24 - M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 1/1/2018   | 2/9/2018  | 5             | 30       |                   |
| 2            | Grading               | Grading               | 2/10/2018  | 5/25/2018 | 5             | 75       |                   |
| 3            | Paving                | Paving                | 3/27/2021  | 6/11/2021 | 5             | 55       |                   |
| 4            | Building Construction | Building Construction | 5/26/2018  | 3/26/2021 | 5             | 740      |                   |
| 5            | Architectural Coating | Architectural Coating | 6/12/2021  | 8/27/2021 | 5             | 55       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Desert Subregion 24 - M - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 11.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 55.00              | 16.00              | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Desert Subregion 24 - M - San Diego County, Winter

**3.2 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.2 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.3 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.3 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.4 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        |          | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> |          | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0837        | 0.0563        | 0.5399        | 1.7700e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 176.5693        | 176.5693        | 4.9000e-003        |     | 176.6919        |
| <b>Total</b> | <b>0.0837</b> | <b>0.0563</b> | <b>0.5399</b> | <b>1.7700e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>176.5693</b> | <b>176.5693</b> | <b>4.9000e-003</b> |     | <b>176.6919</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.4 Paving - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        | 0.0000        | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> | <b>0.0000</b> | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0837        | 0.0563        | 0.5399        | 1.7700e-003        | 0.1916        | 1.2700e-003        | 0.1929        | 0.0508         | 1.1700e-003        | 0.0520        |          | 176.5693        | 176.5693        | 4.9000e-003        |     | 176.6919        |
| <b>Total</b> | <b>0.0837</b> | <b>0.0563</b> | <b>0.5399</b> | <b>1.7700e-003</b> | <b>0.1916</b> | <b>1.2700e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.1700e-003</b> | <b>0.0520</b> |          | <b>176.5693</b> | <b>176.5693</b> | <b>4.9000e-003</b> |     | <b>176.6919</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0808        | 2.0069        | 0.5905        | 4.0100e-003   | 0.0980        | 0.0153        | 0.1132        | 0.0282         | 0.0146        | 0.0428        |          | 428.7348               | 428.7348               | 0.0385        |     | 429.6973               |
| Worker       | 0.3742        | 0.2808        | 2.5723        | 7.1600e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 713.3508               | 713.3508               | 0.0238        |     | 713.9466               |
| <b>Total</b> | <b>0.4549</b> | <b>2.2876</b> | <b>3.1628</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0201</b> | <b>0.8206</b> | <b>0.2145</b>  | <b>0.0191</b> | <b>0.2336</b> |          | <b>1,142.085<br/>5</b> | <b>1,142.085<br/>5</b> | <b>0.0623</b> |     | <b>1,143.643<br/>9</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0808        | 2.0069        | 0.5905        | 4.0100e-003   | 0.0980        | 0.0153        | 0.1132        | 0.0282         | 0.0146        | 0.0428        |          | 428.7348               | 428.7348               | 0.0385        |     | 429.6973               |
| Worker       | 0.3742        | 0.2808        | 2.5723        | 7.1600e-003   | 0.7025        | 4.8600e-003   | 0.7074        | 0.1863         | 4.4900e-003   | 0.1908        |          | 713.3508               | 713.3508               | 0.0238        |     | 713.9466               |
| <b>Total</b> | <b>0.4549</b> | <b>2.2876</b> | <b>3.1628</b> | <b>0.0112</b> | <b>0.8005</b> | <b>0.0201</b> | <b>0.8206</b> | <b>0.2145</b>  | <b>0.0191</b> | <b>0.2336</b> |          | <b>1,142.085<br/>5</b> | <b>1,142.085<br/>5</b> | <b>0.0623</b> |     | <b>1,143.643<br/>9</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0722        | 1.8904        | 0.5428        | 3.9700e-003   | 0.0980        | 0.0128        | 0.1108        | 0.0282         | 0.0123        | 0.0405        |          | 425.5448               | 425.5448               | 0.0372        |     | 426.4742               |
| Worker       | 0.3460        | 0.2512        | 2.3158        | 6.9400e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 691.8051               | 691.8051               | 0.0215        |     | 692.3436               |
| <b>Total</b> | <b>0.4182</b> | <b>2.1415</b> | <b>2.8586</b> | <b>0.0109</b> | <b>0.8005</b> | <b>0.0176</b> | <b>0.8181</b> | <b>0.2145</b>  | <b>0.0167</b> | <b>0.2312</b> |          | <b>1,117.349<br/>9</b> | <b>1,117.349<br/>9</b> | <b>0.0587</b> |     | <b>1,118.817<br/>8</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0722        | 1.8904        | 0.5428        | 3.9700e-003   | 0.0980        | 0.0128        | 0.1108        | 0.0282         | 0.0123        | 0.0405        |          | 425.5448               | 425.5448               | 0.0372        |     | 426.4742               |
| Worker       | 0.3460        | 0.2512        | 2.3158        | 6.9400e-003   | 0.7025        | 4.8200e-003   | 0.7073        | 0.1863         | 4.4400e-003   | 0.1907        |          | 691.8051               | 691.8051               | 0.0215        |     | 692.3436               |
| <b>Total</b> | <b>0.4182</b> | <b>2.1415</b> | <b>2.8586</b> | <b>0.0109</b> | <b>0.8005</b> | <b>0.0176</b> | <b>0.8181</b> | <b>0.2145</b>  | <b>0.0167</b> | <b>0.2312</b> |          | <b>1,117.349<br/>9</b> | <b>1,117.349<br/>9</b> | <b>0.0587</b> |     | <b>1,118.817<br/>8</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0590        | 1.7221        | 0.4879        | 3.9400e-003   | 0.0980        | 8.2000e-003   | 0.1062        | 0.0282         | 7.8500e-003   | 0.0361        |          | 422.6229               | 422.6229               | 0.0352        |     | 423.5028               |
| Worker       | 0.3244        | 0.2268        | 2.1182        | 6.7200e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 669.9495               | 669.9495               | 0.0195        |     | 670.4363               |
| <b>Total</b> | <b>0.3834</b> | <b>1.9488</b> | <b>2.6061</b> | <b>0.0107</b> | <b>0.8005</b> | <b>0.0129</b> | <b>0.8134</b> | <b>0.2145</b>  | <b>0.0122</b> | <b>0.2267</b> |          | <b>1,092.572<br/>4</b> | <b>1,092.572<br/>4</b> | <b>0.0547</b> |     | <b>1,093.939<br/>1</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2020****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0590        | 1.7221        | 0.4879        | 3.9400e-003   | 0.0980        | 8.2000e-003   | 0.1062        | 0.0282         | 7.8500e-003   | 0.0361        |          | 422.6229               | 422.6229               | 0.0352        |     | 423.5028               |
| Worker       | 0.3244        | 0.2268        | 2.1182        | 6.7200e-003   | 0.7025        | 4.7400e-003   | 0.7073        | 0.1863         | 4.3700e-003   | 0.1907        |          | 669.9495               | 669.9495               | 0.0195        |     | 670.4363               |
| <b>Total</b> | <b>0.3834</b> | <b>1.9488</b> | <b>2.6061</b> | <b>0.0107</b> | <b>0.8005</b> | <b>0.0129</b> | <b>0.8134</b> | <b>0.2145</b>  | <b>0.0122</b> | <b>0.2267</b> |          | <b>1,092.572<br/>4</b> | <b>1,092.572<br/>4</b> | <b>0.0547</b> |     | <b>1,093.939<br/>1</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0483        | 1.5583        | 0.4427        | 3.8900e-003   | 0.0980        | 3.2700e-003        | 0.1012        | 0.0282         | 3.1300e-003        | 0.0313        |          | 418.7178          | 418.7178          | 0.0337        |     | 419.5611          |
| Worker       | 0.3068        | 0.2062        | 1.9796        | 6.4900e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 647.4208          | 647.4208          | 0.0180        |     | 647.8703          |
| <b>Total</b> | <b>0.3551</b> | <b>1.7645</b> | <b>2.4223</b> | <b>0.0104</b> | <b>0.8005</b> | <b>7.9400e-003</b> | <b>0.8084</b> | <b>0.2145</b>  | <b>7.4300e-003</b> | <b>0.2219</b> |          | <b>1,066.1387</b> | <b>1,066.1387</b> | <b>0.0517</b> |     | <b>1,067.4313</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.5 Building Construction - 2021****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.363<br>9         | 2,553.363<br>9         | 0.6160        |     | 2,568.764<br>3         |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.363<br/>9</b> | <b>2,553.363<br/>9</b> | <b>0.6160</b> |     | <b>2,568.764<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0483        | 1.5583        | 0.4427        | 3.8900e-003   | 0.0980        | 3.2700e-003        | 0.1012        | 0.0282         | 3.1300e-003        | 0.0313        |          | 418.7178               | 418.7178               | 0.0337        |     | 419.5611               |
| Worker       | 0.3068        | 0.2062        | 1.9796        | 6.4900e-003   | 0.7025        | 4.6700e-003        | 0.7072        | 0.1863         | 4.3000e-003        | 0.1906        |          | 647.4208               | 647.4208               | 0.0180        |     | 647.8703               |
| <b>Total</b> | <b>0.3551</b> | <b>1.7645</b> | <b>2.4223</b> | <b>0.0104</b> | <b>0.8005</b> | <b>7.9400e-003</b> | <b>0.8084</b> | <b>0.2145</b>  | <b>7.4300e-003</b> | <b>0.2219</b> |          | <b>1,066.138<br/>7</b> | <b>1,066.138<br/>7</b> | <b>0.0517</b> |     | <b>1,067.431<br/>3</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0614        | 0.0413        | 0.3959        | 1.3000e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 129.4842        | 129.4842        | 3.6000e-003        |     | 129.5741        |
| <b>Total</b> | <b>0.0614</b> | <b>0.0413</b> | <b>0.3959</b> | <b>1.3000e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>129.4842</b> | <b>129.4842</b> | <b>3.6000e-003</b> |     | <b>129.5741</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**3.6 Architectural Coating - 2021****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 31.3318        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>31.5507</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0614        | 0.0413        | 0.3959        | 1.3000e-003        | 0.1405        | 9.3000e-004        | 0.1414        | 0.0373         | 8.6000e-004        | 0.0381        |          | 129.4842        | 129.4842        | 3.6000e-003        |     | 129.5741        |
| <b>Total</b> | <b>0.0614</b> | <b>0.0413</b> | <b>0.3959</b> | <b>1.3000e-003</b> | <b>0.1405</b> | <b>9.3000e-004</b> | <b>0.1414</b> | <b>0.0373</b>  | <b>8.6000e-004</b> | <b>0.0381</b> |          | <b>129.4842</b> | <b>129.4842</b> | <b>3.6000e-003</b> |     | <b>129.5741</b> |

**4.0 Operational Detail - Mobile**

## Desert Subregion 24 - M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 1.4730 | 7.8434 | 19.8956 | 0.0986 | 12.5050       | 0.0360       | 12.5409    | 3.3421         | 0.0335        | 3.3757      |          | 10,160.93<br>38 | 10,160.93<br>38 | 0.4689 |     | 10,172.65<br>59 |
| Unmitigated | 1.4730 | 7.8434 | 19.8956 | 0.0986 | 12.5050       | 0.0360       | 12.5409    | 3.3421         | 0.0335        | 3.3757      |          | 10,160.93<br>38 | 10,160.93<br>38 | 0.4689 |     | 10,172.65<br>59 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,530.00                | 1,592.73 | 1384.65  | 5,618,332   | 5,618,332  |
| Total                 | 1,530.00                | 1,592.73 | 1,384.65 | 5,618,332   | 5,618,332  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Desert Subregion 24 - M - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |
| NaturalGas Unmitigated | 0.1678 | 1.4342 | 0.6103 | 9.1500e-003 |               | 0.1160       | 0.1160     |                | 0.1160        | 0.1160      |          | 1,830.8910 | 1,830.8910 | 0.0351 | 0.0336 | 1,841.7710 |

## Desert Subregion 24 - M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15562.6        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 15.5626        | 0.1678        | 1.4342        | 0.6103        | 9.1500e-003        |               | 0.1160        | 0.1160        |                | 0.1160        | 0.1160        |          | 1,830.8910        | 1,830.8910        | 0.0351        | 0.0336        | 1,841.7710        |
| <b>Total</b>          |                | <b>0.1678</b> | <b>1.4342</b> | <b>0.6103</b> | <b>9.1500e-003</b> |               | <b>0.1160</b> | <b>0.1160</b> |                | <b>0.1160</b> | <b>0.1160</b> |          | <b>1,830.8910</b> | <b>1,830.8910</b> | <b>0.0351</b> | <b>0.0336</b> | <b>1,841.7710</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Desert Subregion 24 - M - San Diego County, Winter

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 7.0386 | 2.6831 | 13.6472 | 0.0169 |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 3,262.7285 | 3,262.7285 | 0.0837 | 0.0594 | 3,282.5231 |
| Unmitigated | 7.0386 | 2.6831 | 13.6472 | 0.0169 |               | 0.2752       | 0.2752     |                | 0.2752        | 0.2752      | 0.0000   | 3,262.7285 | 3,262.7285 | 0.0837 | 0.0594 | 3,282.5231 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.4721        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 5.8936        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.2970        | 2.5380        | 1.0800         | 0.0162        |               | 0.2052        | 0.2052        |                | 0.2052        | 0.2052        | 0.0000        | 3,240.0000        | 3,240.0000        | 0.0621        | 0.0594        | 3,259.2537        |
| Landscaping           | 0.3759        | 0.1451        | 12.5672        | 6.7000e-004   |               | 0.0700        | 0.0700        |                | 0.0700        | 0.0700        |               | 22.7285           | 22.7285           | 0.0216        |               | 23.2694           |
| <b>Total</b>          | <b>7.0386</b> | <b>2.6831</b> | <b>13.6472</b> | <b>0.0169</b> |               | <b>0.2752</b> | <b>0.2752</b> |                | <b>0.2752</b> | <b>0.2752</b> | <b>0.0000</b> | <b>3,262.7285</b> | <b>3,262.7285</b> | <b>0.0837</b> | <b>0.0594</b> | <b>3,282.5231</b> |

## Desert Subregion 24 - M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O           | CO2e                   |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| SubCategory           | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |               |                        |
| Architectural Coating | 0.4721        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Consumer Products     | 5.8936        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |               | 0.0000                 |
| Hearth                | 0.2970        | 2.5380        | 1.0800         | 0.0162        |               | 0.2052        | 0.2052        |                | 0.2052        | 0.2052        | 0.0000        | 3,240.000<br>0         | 3,240.000<br>0         | 0.0621        | 0.0594        | 3,259.253<br>7         |
| Landscaping           | 0.3759        | 0.1451        | 12.5672        | 6.7000e-004   |               | 0.0700        | 0.0700        |                | 0.0700        | 0.0700        |               | 22.7285                | 22.7285                | 0.0216        |               | 23.2694                |
| <b>Total</b>          | <b>7.0386</b> | <b>2.6831</b> | <b>13.6472</b> | <b>0.0169</b> |               | <b>0.2752</b> | <b>0.2752</b> |                | <b>0.2752</b> | <b>0.2752</b> | <b>0.0000</b> | <b>3,262.728<br/>5</b> | <b>3,262.728<br/>5</b> | <b>0.0837</b> | <b>0.0594</b> | <b>3,282.523<br/>1</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Desert Subregion 24 - M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 2+, UM - San Diego County, Summer

**Fallbrook 2+, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 16.00 | Dwelling Unit | 5.19        | 28,800.00          | 46         |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings).

Vehicle Trips - Using SANDAG Weekday Rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Fallbrook 2+, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/22/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/28/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018   |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/25/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/26/2019  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 12/29/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

---

Fallbrook 2+, UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 4.6687 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.4050 | 4,080.4050 | 1.2011 | 0.0000 | 4,110.4330 |
| 2019    | 9.2823 | 15.3051 | 15.3472 | 0.0248 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,458.0692 | 2,458.0692 | 0.7203 | 0.0000 | 2,476.0778 |
| Maximum | 9.2823 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.4050 | 4,080.4050 | 1.2011 | 0.0000 | 4,110.4330 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 4.6687 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.4050 | 4,080.4050 | 1.2011 | 0.0000 | 4,110.4330 |
| 2019    | 9.2823 | 15.3051 | 15.3472 | 0.0248 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,458.0692 | 2,458.0692 | 0.7203 | 0.0000 | 2,476.0778 |
| Maximum | 9.2823 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.4050 | 4,080.4050 | 1.2011 | 0.0000 | 4,110.4330 |

[illegible]

## Fallbrook 2+, UM - San Diego County, Summer

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 25.1913        | 0.4934        | 31.5399        | 0.0548        |               | 4.2453        | 4.2453        |                | 4.2453        | 4.2453        | 444.3477        | 188.7298          | 633.0775          | 0.4123        | 0.0350        | 653.8010          |
| Energy       | 0.0176         | 0.1500        | 0.0638         | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |                 | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003   | 192.6035          |
| Mobile       | 0.1572         | 0.8055        | 2.1555         | 0.0108        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |                 | 1,114.8585        | 1,114.8585        | 0.0489        |               | 1,116.0814        |
| <b>Total</b> | <b>25.3661</b> | <b>1.4489</b> | <b>33.7593</b> | <b>0.0666</b> | <b>1.3077</b> | <b>4.2611</b> | <b>5.5689</b> | <b>0.3495</b>  | <b>4.2609</b> | <b>4.6104</b> | <b>444.3477</b> | <b>1,495.0540</b> | <b>1,939.4017</b> | <b>0.4649</b> | <b>0.0385</b> | <b>1,962.4859</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 25.1913        | 0.4934        | 31.5399        | 0.0548        |               | 4.2453        | 4.2453        |                | 4.2453        | 4.2453        | 444.3477        | 188.7298          | 633.0775          | 0.4123        | 0.0350        | 653.8010          |
| Energy       | 0.0176         | 0.1500        | 0.0638         | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |                 | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003   | 192.6035          |
| Mobile       | 0.1572         | 0.8055        | 2.1555         | 0.0108        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |                 | 1,114.8585        | 1,114.8585        | 0.0489        |               | 1,116.0814        |
| <b>Total</b> | <b>25.3661</b> | <b>1.4489</b> | <b>33.7593</b> | <b>0.0666</b> | <b>1.3077</b> | <b>4.2611</b> | <b>5.5689</b> | <b>0.3495</b>  | <b>4.2609</b> | <b>4.6104</b> | <b>444.3477</b> | <b>1,495.0540</b> | <b>1,939.4017</b> | <b>0.4649</b> | <b>0.0385</b> | <b>1,962.4859</b> |

## Fallbrook 2+, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 1/26/2019  | 2/22/2019  | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/10/2018  | 12/28/2018 | 5             | 230      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/9/2018   | 5             | 20       |                   |
| 4            | Paving                | Paving                | 12/29/2018 | 1/25/2019  | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018  | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 58,320; Residential Outdoor: 19,440; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 2+, UM - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 6.00               | 2.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 2+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.4400e-003        | 4.0700e-003        | 0.0455        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.4045        | 13.4045        | 4.2000e-004        |     | 13.4149        |
| <b>Total</b> | <b>5.4400e-003</b> | <b>4.0700e-003</b> | <b>0.0455</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.4045</b> | <b>13.4045</b> | <b>4.2000e-004</b> |     | <b>13.4149</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.4400e-003        | 4.0700e-003        | 0.0455        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.4045        | 13.4045        | 4.2000e-004        |     | 13.4149        |
| <b>Total</b> | <b>5.4400e-003</b> | <b>4.0700e-003</b> | <b>0.0455</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.4045</b> | <b>13.4045</b> | <b>4.2000e-004</b> |     | <b>13.4149</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 9.6600e-003   | 0.2509        | 0.0664        | 5.1000e-004        | 0.0123        | 1.8700e-003        | 0.0141        | 3.5300e-003    | 1.7900e-003        | 5.3200e-003   |          | 55.0902         | 55.0902         | 4.5100e-003        |     | 55.2029         |
| Worker       | 0.0353        | 0.0273        | 0.3019        | 8.3000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 82.9270         | 82.9270         | 2.7600e-003        |     | 82.9961         |
| <b>Total</b> | <b>0.0450</b> | <b>0.2781</b> | <b>0.3683</b> | <b>1.3400e-003</b> | <b>0.0889</b> | <b>2.4000e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.2800e-003</b> | <b>0.0261</b> |          | <b>138.0173</b> | <b>138.0173</b> | <b>7.2700e-003</b> |     | <b>138.1990</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 9.6600e-003   | 0.2509        | 0.0664        | 5.1000e-004        | 0.0123        | 1.8700e-003        | 0.0141        | 3.5300e-003    | 1.7900e-003        | 5.3200e-003   |          | 55.0902         | 55.0902         | 4.5100e-003        |     | 55.2029         |
| Worker       | 0.0353        | 0.0273        | 0.3019        | 8.3000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 82.9270         | 82.9270         | 2.7600e-003        |     | 82.9961         |
| <b>Total</b> | <b>0.0450</b> | <b>0.2781</b> | <b>0.3683</b> | <b>1.3400e-003</b> | <b>0.0889</b> | <b>2.4000e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.2800e-003</b> | <b>0.0261</b> |          | <b>138.0173</b> | <b>138.0173</b> | <b>7.2700e-003</b> |     | <b>138.1990</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        |          | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> |          | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        | 0.0000        | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> | <b>0.0000</b> | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        |          | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> |          | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        | 0.0000        | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> | <b>0.0000</b> | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 2+, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.1572 | 0.8055 | 2.1555 | 0.0108 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,114.8585 | 1,114.8585 | 0.0489 |     | 1,116.0814 |
| Unmitigated | 0.1572 | 0.8055 | 2.1555 | 0.0108 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,114.8585 | 1,114.8585 | 0.0489 |     | 1,116.0814 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |
| Total                 | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 2+, UM - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |
| NaturalGas Unmitigated | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |

## Fallbrook 2+, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1627.46        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1.62746        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 2+, UM - San Diego County, Summer

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 25.1913 | 0.4934 | 31.5399 | 0.0548 |               | 4.2453       | 4.2453     |                | 4.2453        | 4.2453      | 444.3477 | 188.7298  | 633.0775  | 0.4123 | 0.0350 | 653.8010 |
| Unmitigated | 25.1913 | 0.4934 | 31.5399 | 0.0548 |               | 4.2453       | 4.2453     |                | 4.2453        | 4.2453      | 444.3477 | 188.7298  | 633.0775  | 0.4123 | 0.0350 | 653.8010 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Architectural Coating | 0.0494         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.6163         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 24.4863        | 0.4782        | 30.2257        | 0.0548        |               | 4.2379        | 4.2379        |                | 4.2379        | 4.2379        | 444.3477        | 186.3529        | 630.7006        | 0.4101        | 0.0350        | 651.3676        |
| Landscaping           | 0.0393         | 0.0152        | 1.3142         | 7.0000e-005   |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |                 | 2.3768          | 2.3768          | 2.2600e-003   |               | 2.4334          |
| <b>Total</b>          | <b>25.1913</b> | <b>0.4934</b> | <b>31.5399</b> | <b>0.0548</b> |               | <b>4.2453</b> | <b>4.2453</b> |                | <b>4.2453</b> | <b>4.2453</b> | <b>444.3477</b> | <b>188.7298</b> | <b>633.0775</b> | <b>0.4123</b> | <b>0.0350</b> | <b>653.8010</b> |

## Fallbrook 2+, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Architectural Coating | 0.0494         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.6163         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 24.4863        | 0.4782        | 30.2257        | 0.0548        |               | 4.2379        | 4.2379        |                | 4.2379        | 4.2379        | 444.3477        | 186.3529        | 630.7006        | 0.4101        | 0.0350        | 651.3676        |
| Landscaping           | 0.0393         | 0.0152        | 1.3142         | 7.0000e-005   |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |                 | 2.3768          | 2.3768          | 2.2600e-003   |               | 2.4334          |
| <b>Total</b>          | <b>25.1913</b> | <b>0.4934</b> | <b>31.5399</b> | <b>0.0548</b> |               | <b>4.2453</b> | <b>4.2453</b> |                | <b>4.2453</b> | <b>4.2453</b> | <b>444.3477</b> | <b>188.7298</b> | <b>633.0775</b> | <b>0.4123</b> | <b>0.0350</b> | <b>653.8010</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 2+, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 2+, M - San Diego County, Summer

**Fallbrook 2+, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 16.00 | Dwelling Unit | 5.19        | 28,800.00          | 46         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings).

Vehicle Trips - Using SANDAG Weekday Rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG fireplace

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 2+, M - San Diego County, Summer

|                           |                                 |            |            |
|---------------------------|---------------------------------|------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/22/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 12/28/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/9/2018   |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/25/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/26/2019  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 2/10/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 12/29/2018 |
| tblFireplaces             | NumberGas                       | 8.80       | 16.00      |
| tblFireplaces             | NumberNoFireplace               | 1.60       | 0.00       |
| tblFireplaces             | NumberWood                      | 5.60       | 0.00       |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00      |
| tblWoodstoves             | NumberCatalytic                 | 0.80       | 0.00       |

## Fallbrook 2+, M - San Diego County, Summer

|               |   |                    |   |      |   |      |
|---------------|---|--------------------|---|------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 0.80 | : | 0.00 |
|---------------|---|--------------------|---|------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 4.6687 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.405<br>0 | 4,080.405<br>0 | 1.2011 | 0.0000 | 4,110.433<br>0 |
| 2019    | 9.2823 | 15.3051 | 15.3472 | 0.0248 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,458.069<br>2 | 2,458.069<br>2 | 0.7203 | 0.0000 | 2,476.077<br>8 |
| Maximum | 9.2823 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.405<br>0 | 4,080.405<br>0 | 1.2011 | 0.0000 | 4,110.433<br>0 |

#### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 4.6687 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.405<br>0 | 4,080.405<br>0 | 1.2011 | 0.0000 | 4,110.433<br>0 |
| 2019    | 9.2823 | 15.3051 | 15.3472 | 0.0248 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,458.069<br>2 | 2,458.069<br>2 | 0.7203 | 0.0000 | 2,476.077<br>8 |
| Maximum | 9.2823 | 48.2806 | 23.3821 | 0.0405 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,080.405<br>0 | 4,080.405<br>0 | 1.2011 | 0.0000 | 4,110.433<br>0 |

Fallbrook 2+, M - San Diego County, Summer

[illegible]

## Fallbrook 2+, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |                    |                   |
| Area         | 0.7361        | 0.2806        | 1.4272        | 1.7600e-003   |               | 0.0288        | 0.0288        |                | 0.0288        | 0.0288        | 0.0000        | 341.2004          | 341.2004          | 8.7600e-003   | 6.2100e-003        | 343.2704          |
| Energy       | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |               | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003        | 192.6035          |
| Mobile       | 0.1572        | 0.8055        | 2.1555        | 0.0108        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |               | 1,114.8585        | 1,114.8585        | 0.0489        |                    | 1,116.0814        |
| <b>Total</b> | <b>0.9109</b> | <b>1.2361</b> | <b>3.6465</b> | <b>0.0136</b> | <b>1.3077</b> | <b>0.0447</b> | <b>1.3524</b> | <b>0.3495</b>  | <b>0.0444</b> | <b>0.3939</b> | <b>0.0000</b> | <b>1,647.5246</b> | <b>1,647.5246</b> | <b>0.0614</b> | <b>9.7200e-003</b> | <b>1,651.9553</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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |                    |                   |
| Area         | 0.7361        | 0.2806        | 1.4272        | 1.7600e-003   |               | 0.0288        | 0.0288        |                | 0.0288        | 0.0288        | 0.0000        | 341.2004          | 341.2004          | 8.7600e-003   | 6.2100e-003        | 343.2704          |
| Energy       | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |               | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003        | 192.6035          |
| Mobile       | 0.1572        | 0.8055        | 2.1555        | 0.0108        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |               | 1,114.8585        | 1,114.8585        | 0.0489        |                    | 1,116.0814        |
| <b>Total</b> | <b>0.9109</b> | <b>1.2361</b> | <b>3.6465</b> | <b>0.0136</b> | <b>1.3077</b> | <b>0.0447</b> | <b>1.3524</b> | <b>0.3495</b>  | <b>0.0444</b> | <b>0.3939</b> | <b>0.0000</b> | <b>1,647.5246</b> | <b>1,647.5246</b> | <b>0.0614</b> | <b>9.7200e-003</b> | <b>1,651.9553</b> |

## Fallbrook 2+, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 1/26/2019  | 2/22/2019  | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/10/2018  | 12/28/2018 | 5             | 230      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/9/2018   | 5             | 20       |                   |
| 4            | Paving                | Paving                | 12/29/2018 | 1/25/2019  | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018  | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 58,320; Residential Outdoor: 19,440; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 2+, M - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 6.00               | 2.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 2+, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.4400e-003        | 4.0700e-003        | 0.0455        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.4045        | 13.4045        | 4.2000e-004        |     | 13.4149        |
| <b>Total</b> | <b>5.4400e-003</b> | <b>4.0700e-003</b> | <b>0.0455</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.4045</b> | <b>13.4045</b> | <b>4.2000e-004</b> |     | <b>13.4149</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.4400e-003        | 4.0700e-003        | 0.0455        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.4045        | 13.4045        | 4.2000e-004        |     | 13.4149        |
| <b>Total</b> | <b>5.4400e-003</b> | <b>4.0700e-003</b> | <b>0.0455</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.4045</b> | <b>13.4045</b> | <b>4.2000e-004</b> |     | <b>13.4149</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 9.6600e-003   | 0.2509        | 0.0664        | 5.1000e-004        | 0.0123        | 1.8700e-003        | 0.0141        | 3.5300e-003    | 1.7900e-003        | 5.3200e-003   |          | 55.0902         | 55.0902         | 4.5100e-003        |     | 55.2029         |
| Worker       | 0.0353        | 0.0273        | 0.3019        | 8.3000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 82.9270         | 82.9270         | 2.7600e-003        |     | 82.9961         |
| <b>Total</b> | <b>0.0450</b> | <b>0.2781</b> | <b>0.3683</b> | <b>1.3400e-003</b> | <b>0.0889</b> | <b>2.4000e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.2800e-003</b> | <b>0.0261</b> |          | <b>138.0173</b> | <b>138.0173</b> | <b>7.2700e-003</b> |     | <b>138.1990</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 9.6600e-003   | 0.2509        | 0.0664        | 5.1000e-004        | 0.0123        | 1.8700e-003        | 0.0141        | 3.5300e-003    | 1.7900e-003        | 5.3200e-003   |          | 55.0902         | 55.0902         | 4.5100e-003        |     | 55.2029         |
| Worker       | 0.0353        | 0.0273        | 0.3019        | 8.3000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 82.9270         | 82.9270         | 2.7600e-003        |     | 82.9961         |
| <b>Total</b> | <b>0.0450</b> | <b>0.2781</b> | <b>0.3683</b> | <b>1.3400e-003</b> | <b>0.0889</b> | <b>2.4000e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.2800e-003</b> | <b>0.0261</b> |          | <b>138.0173</b> | <b>138.0173</b> | <b>7.2700e-003</b> |     | <b>138.1990</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        |          | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> |          | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        | 0.0000        | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> | <b>0.0000</b> | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        |          | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> |          | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        | 0.0000        | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> | <b>0.0000</b> | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 2+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 2+, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.1572 | 0.8055 | 2.1555 | 0.0108 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,114.8585 | 1,114.8585 | 0.0489 |     | 1,116.0814 |
| Unmitigated | 0.1572 | 0.8055 | 2.1555 | 0.0108 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,114.8585 | 1,114.8585 | 0.0489 |     | 1,116.0814 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |
| Total                 | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 2+, M - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |
| NaturalGas Unmitigated | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |

## Fallbrook 2+, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1627.46        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1.62746        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 2+, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Mitigated   | 0.7361 | 0.2806 | 1.4272 | 1.7600e-003 |               | 0.0288       | 0.0288     |                | 0.0288        | 0.0288      | 0.0000   | 341.2004  | 341.2004  | 8.7600e-003 | 6.2100e-003 | 343.2704 |
| Unmitigated | 0.7361 | 0.2806 | 1.4272 | 1.7600e-003 |               | 0.0288       | 0.0288     |                | 0.0288        | 0.0288      | 0.0000   | 341.2004  | 341.2004  | 8.7600e-003 | 6.2100e-003 | 343.2704 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0494        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.6163        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0311        | 0.2654        | 0.1129        | 1.6900e-003        |               | 0.0215        | 0.0215        |                | 0.0215        | 0.0215        | 0.0000        | 338.8235        | 338.8235        | 6.4900e-003        | 6.2100e-003        | 340.8370        |
| Landscaping           | 0.0393        | 0.0152        | 1.3142        | 7.0000e-005        |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |               | 2.3768          | 2.3768          | 2.2600e-003        |                    | 2.4334          |
| <b>Total</b>          | <b>0.7361</b> | <b>0.2806</b> | <b>1.4272</b> | <b>1.7600e-003</b> |               | <b>0.0288</b> | <b>0.0288</b> |                | <b>0.0288</b> | <b>0.0288</b> | <b>0.0000</b> | <b>341.2004</b> | <b>341.2004</b> | <b>8.7500e-003</b> | <b>6.2100e-003</b> | <b>343.2704</b> |

## Fallbrook 2+, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0494        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.6163        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0311        | 0.2654        | 0.1129        | 1.6900e-003        |               | 0.0215        | 0.0215        |                | 0.0215        | 0.0215        | 0.0000        | 338.8235        | 338.8235        | 6.4900e-003        | 6.2100e-003        | 340.8370        |
| Landscaping           | 0.0393        | 0.0152        | 1.3142        | 7.0000e-005        |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |               | 2.3768          | 2.3768          | 2.2600e-003        |                    | 2.4334          |
| <b>Total</b>          | <b>0.7361</b> | <b>0.2806</b> | <b>1.4272</b> | <b>1.7600e-003</b> |               | <b>0.0288</b> | <b>0.0288</b> |                | <b>0.0288</b> | <b>0.0288</b> | <b>0.0000</b> | <b>341.2004</b> | <b>341.2004</b> | <b>8.7500e-003</b> | <b>6.2100e-003</b> | <b>343.2704</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Fallbrook 2+, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 2+, UM - San Diego County, Winter

**Fallbrook 2+, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 16.00 | Dwelling Unit | 5.19        | 28,800.00          | 46         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings).

Vehicle Trips - Using SANDAG Weekday Rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Fallbrook 2+, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/22/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/28/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/9/2018   |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/25/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/26/2019  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/10/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 12/29/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

Fallbrook 2+, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 4.6852 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.0841 | 4,065.0841 | 1.2006 | 0.0000 | 4,095.1000 |
| 2019    | 9.2832 | 15.3126 | 15.2964 | 0.0247 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,445.6766 | 2,445.6766 | 0.7200 | 0.0000 | 2,463.6758 |
| Maximum | 9.2832 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.0841 | 4,065.0841 | 1.2006 | 0.0000 | 4,095.1000 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 4.6852 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.0841 | 4,065.0841 | 1.2006 | 0.0000 | 4,095.1000 |
| 2019    | 9.2832 | 15.3126 | 15.2964 | 0.0247 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,445.6766 | 2,445.6766 | 0.7200 | 0.0000 | 2,463.6758 |
| Maximum | 9.2832 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.0841 | 4,065.0841 | 1.2006 | 0.0000 | 4,095.1000 |

[illegible]

## Fallbrook 2+, UM - San Diego County, Winter

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 25.1913        | 0.4934        | 31.5399        | 0.0548        |               | 4.2453        | 4.2453        |                | 4.2453        | 4.2453        | 444.3477        | 188.7298          | 633.0775          | 0.4123        | 0.0350        | 653.8010          |
| Energy       | 0.0176         | 0.1500        | 0.0638         | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |                 | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003   | 192.6035          |
| Mobile       | 0.1540         | 0.8202        | 2.0806         | 0.0103        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |                 | 1,062.5813        | 1,062.5813        | 0.0490        |               | 1,063.8072        |
| <b>Total</b> | <b>25.3629</b> | <b>1.4636</b> | <b>33.6843</b> | <b>0.0661</b> | <b>1.3077</b> | <b>4.2611</b> | <b>5.5689</b> | <b>0.3495</b>  | <b>4.2609</b> | <b>4.6104</b> | <b>444.3477</b> | <b>1,442.7768</b> | <b>1,887.1245</b> | <b>0.4650</b> | <b>0.0385</b> | <b>1,910.2117</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 25.1913        | 0.4934        | 31.5399        | 0.0548        |               | 4.2453        | 4.2453        |                | 4.2453        | 4.2453        | 444.3477        | 188.7298          | 633.0775          | 0.4123        | 0.0350        | 653.8010          |
| Energy       | 0.0176         | 0.1500        | 0.0638         | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |                 | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003   | 192.6035          |
| Mobile       | 0.1540         | 0.8202        | 2.0806         | 0.0103        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |                 | 1,062.5813        | 1,062.5813        | 0.0490        |               | 1,063.8072        |
| <b>Total</b> | <b>25.3629</b> | <b>1.4636</b> | <b>33.6843</b> | <b>0.0661</b> | <b>1.3077</b> | <b>4.2611</b> | <b>5.5689</b> | <b>0.3495</b>  | <b>4.2609</b> | <b>4.6104</b> | <b>444.3477</b> | <b>1,442.7768</b> | <b>1,887.1245</b> | <b>0.4650</b> | <b>0.0385</b> | <b>1,910.2117</b> |

## Fallbrook 2+, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 1/26/2019  | 2/22/2019  | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/10/2018  | 12/28/2018 | 5             | 230      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/9/2018   | 5             | 20       |                   |
| 4            | Paving                | Paving                | 12/29/2018 | 1/25/2019  | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018  | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 58,320; Residential Outdoor: 19,440; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 2+, UM - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 6.00               | 2.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 2+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.2900e-003        | 4.5700e-003        | 0.0421        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.5783        | 12.5783        | 3.9000e-004        |     | 12.5881        |
| <b>Total</b> | <b>6.2900e-003</b> | <b>4.5700e-003</b> | <b>0.0421</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.5783</b> | <b>12.5783</b> | <b>3.9000e-004</b> |     | <b>12.5881</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.2900e-003        | 4.5700e-003        | 0.0421        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.5783        | 12.5783        | 3.9000e-004        |     | 12.5881        |
| <b>Total</b> | <b>6.2900e-003</b> | <b>4.5700e-003</b> | <b>0.0421</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.5783</b> | <b>12.5783</b> | <b>3.9000e-004</b> |     | <b>12.5881</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0101        | 0.2509        | 0.0738        | 5.0000e-004        | 0.0123        | 1.9100e-003        | 0.0142        | 3.5300e-003    | 1.8300e-003        | 5.3500e-003   |          | 53.5918         | 53.5918         | 4.8100e-003        |     | 53.7122         |
| Worker       | 0.0408        | 0.0306        | 0.2806        | 7.8000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 77.8201         | 77.8201         | 2.6000e-003        |     | 77.8851         |
| <b>Total</b> | <b>0.0509</b> | <b>0.2815</b> | <b>0.3544</b> | <b>1.2800e-003</b> | <b>0.0889</b> | <b>2.4400e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.3200e-003</b> | <b>0.0262</b> |          | <b>131.4119</b> | <b>131.4119</b> | <b>7.4100e-003</b> |     | <b>131.5973</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0101        | 0.2509        | 0.0738        | 5.0000e-004        | 0.0123        | 1.9100e-003        | 0.0142        | 3.5300e-003    | 1.8300e-003        | 5.3500e-003   |          | 53.5918         | 53.5918         | 4.8100e-003        |     | 53.7122         |
| Worker       | 0.0408        | 0.0306        | 0.2806        | 7.8000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 77.8201         | 77.8201         | 2.6000e-003        |     | 77.8851         |
| <b>Total</b> | <b>0.0509</b> | <b>0.2815</b> | <b>0.3544</b> | <b>1.2800e-003</b> | <b>0.0889</b> | <b>2.4400e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.3200e-003</b> | <b>0.0262</b> |          | <b>131.4119</b> | <b>131.4119</b> | <b>7.4100e-003</b> |     | <b>131.5973</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        |          | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> |          | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        | 0.0000        | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> | <b>0.0000</b> | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        |          | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> |          | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        | 0.0000        | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> | <b>0.0000</b> | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 2+, UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.1540 | 0.8202 | 2.0806 | 0.0103 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,062.5813 | 1,062.5813 | 0.0490 |     | 1,063.8072 |
| Unmitigated | 0.1540 | 0.8202 | 2.0806 | 0.0103 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,062.5813 | 1,062.5813 | 0.0490 |     | 1,063.8072 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |
| Total                 | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 2+, UM - San Diego County, Winter

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |
| NaturalGas Unmitigated | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |

## Fallbrook 2+, UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1627.46        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1.62746        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 2+, UM - San Diego County, Winter

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 25.1913 | 0.4934 | 31.5399 | 0.0548 |               | 4.2453       | 4.2453     |                | 4.2453        | 4.2453      | 444.3477 | 188.7298  | 633.0775  | 0.4123 | 0.0350 | 653.8010 |
| Unmitigated | 25.1913 | 0.4934 | 31.5399 | 0.0548 |               | 4.2453       | 4.2453     |                | 4.2453        | 4.2453      | 444.3477 | 188.7298  | 633.0775  | 0.4123 | 0.0350 | 653.8010 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Architectural Coating | 0.0494         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.6163         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 24.4863        | 0.4782        | 30.2257        | 0.0548        |               | 4.2379        | 4.2379        |                | 4.2379        | 4.2379        | 444.3477        | 186.3529        | 630.7006        | 0.4101        | 0.0350        | 651.3676        |
| Landscaping           | 0.0393         | 0.0152        | 1.3142         | 7.0000e-005   |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |                 | 2.3768          | 2.3768          | 2.2600e-003   |               | 2.4334          |
| <b>Total</b>          | <b>25.1913</b> | <b>0.4934</b> | <b>31.5399</b> | <b>0.0548</b> |               | <b>4.2453</b> | <b>4.2453</b> |                | <b>4.2453</b> | <b>4.2453</b> | <b>444.3477</b> | <b>188.7298</b> | <b>633.0775</b> | <b>0.4123</b> | <b>0.0350</b> | <b>653.8010</b> |

## Fallbrook 2+, UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Architectural Coating | 0.0494         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.6163         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 24.4863        | 0.4782        | 30.2257        | 0.0548        |               | 4.2379        | 4.2379        |                | 4.2379        | 4.2379        | 444.3477        | 186.3529        | 630.7006        | 0.4101        | 0.0350        | 651.3676        |
| Landscaping           | 0.0393         | 0.0152        | 1.3142         | 7.0000e-005   |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |                 | 2.3768          | 2.3768          | 2.2600e-003   |               | 2.4334          |
| <b>Total</b>          | <b>25.1913</b> | <b>0.4934</b> | <b>31.5399</b> | <b>0.0548</b> |               | <b>4.2453</b> | <b>4.2453</b> |                | <b>4.2453</b> | <b>4.2453</b> | <b>444.3477</b> | <b>188.7298</b> | <b>633.0775</b> | <b>0.4123</b> | <b>0.0350</b> | <b>653.8010</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 2+, UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 2+, M - San Diego County, Winter

**Fallbrook 2+, M**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 16.00 | Dwelling Unit | 5.19        | 28,800.00          | 46         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings).

Vehicle Trips - Using SANDAG Weekday Rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG fireplace

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 2+, M - San Diego County, Winter

|                           |                                 |            |            |
|---------------------------|---------------------------------|------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/22/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 12/28/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/9/2018   |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/25/2019  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/26/2019  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 2/10/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 12/29/2018 |
| tblFireplaces             | NumberGas                       | 8.80       | 16.00      |
| tblFireplaces             | NumberNoFireplace               | 1.60       | 0.00       |
| tblFireplaces             | NumberWood                      | 5.60       | 0.00       |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00      |
| tblWoodstoves             | NumberCatalytic                 | 0.80       | 0.00       |

## Fallbrook 2+, M - San Diego County, Winter

|               |   |                    |   |      |   |      |
|---------------|---|--------------------|---|------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 0.80 | : | 0.00 |
|---------------|---|--------------------|---|------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 4.6852 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.084<br>1 | 4,065.084<br>1 | 1.2006 | 0.0000 | 4,095.100<br>0 |
| 2019    | 9.2832 | 15.3126 | 15.2964 | 0.0247 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,445.676<br>6 | 2,445.676<br>6 | 0.7200 | 0.0000 | 2,463.675<br>8 |
| Maximum | 9.2832 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.084<br>1 | 4,065.084<br>1 | 1.2006 | 0.0000 | 4,095.100<br>0 |

#### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 4.6852 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.084<br>1 | 4,065.084<br>1 | 1.2006 | 0.0000 | 4,095.100<br>0 |
| 2019    | 9.2832 | 15.3126 | 15.2964 | 0.0247 | 0.1916        | 0.8259       | 1.0175     | 0.0508         | 0.7598        | 0.8106      | 0.0000   | 2,445.676<br>6 | 2,445.676<br>6 | 0.7200 | 0.0000 | 2,463.675<br>8 |
| Maximum | 9.2832 | 48.2906 | 23.3181 | 0.0404 | 18.2962       | 2.5785       | 20.8747    | 9.9917         | 2.3722        | 12.3639     | 0.0000   | 4,065.084<br>1 | 4,065.084<br>1 | 1.2006 | 0.0000 | 4,095.100<br>0 |

Fallbrook 2+, M - San Diego County, Winter

[illegible]

## Fallbrook 2+, M - San Diego County, Winter

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |                    |                   |
| Area         | 0.7361        | 0.2806        | 1.4272        | 1.7600e-003   |               | 0.0288        | 0.0288        |                | 0.0288        | 0.0288        | 0.0000        | 341.2004          | 341.2004          | 8.7600e-003   | 6.2100e-003        | 343.2704          |
| Energy       | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |               | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003        | 192.6035          |
| Mobile       | 0.1540        | 0.8202        | 2.0806        | 0.0103        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |               | 1,062.5813        | 1,062.5813        | 0.0490        |                    | 1,063.8072        |
| <b>Total</b> | <b>0.9077</b> | <b>1.2508</b> | <b>3.5716</b> | <b>0.0130</b> | <b>1.3077</b> | <b>0.0447</b> | <b>1.3524</b> | <b>0.3495</b>  | <b>0.0444</b> | <b>0.3939</b> | <b>0.0000</b> | <b>1,595.2474</b> | <b>1,595.2474</b> | <b>0.0615</b> | <b>9.7200e-003</b> | <b>1,599.6810</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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |                    |                   |
| Area         | 0.7361        | 0.2806        | 1.4272        | 1.7600e-003   |               | 0.0288        | 0.0288        |                | 0.0288        | 0.0288        | 0.0000        | 341.2004          | 341.2004          | 8.7600e-003   | 6.2100e-003        | 343.2704          |
| Energy       | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004   |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |               | 191.4657          | 191.4657          | 3.6700e-003   | 3.5100e-003        | 192.6035          |
| Mobile       | 0.1540        | 0.8202        | 2.0806        | 0.0103        | 1.3077        | 3.7600e-003   | 1.3115        | 0.3495         | 3.5000e-003   | 0.3530        |               | 1,062.5813        | 1,062.5813        | 0.0490        |                    | 1,063.8072        |
| <b>Total</b> | <b>0.9077</b> | <b>1.2508</b> | <b>3.5716</b> | <b>0.0130</b> | <b>1.3077</b> | <b>0.0447</b> | <b>1.3524</b> | <b>0.3495</b>  | <b>0.0444</b> | <b>0.3939</b> | <b>0.0000</b> | <b>1,595.2474</b> | <b>1,595.2474</b> | <b>0.0615</b> | <b>9.7200e-003</b> | <b>1,599.6810</b> |

## Fallbrook 2+, M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 1/26/2019  | 2/22/2019  | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/10/2018  | 12/28/2018 | 5             | 230      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/9/2018   | 5             | 20       |                   |
| 4            | Paving                | Paving                | 12/29/2018 | 1/25/2019  | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018  | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 58,320; Residential Outdoor: 19,440; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 2+, M - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 6.00               | 2.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 2+, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.2900e-003        | 4.5700e-003        | 0.0421        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.5783        | 12.5783        | 3.9000e-004        |     | 12.5881        |
| <b>Total</b> | <b>6.2900e-003</b> | <b>4.5700e-003</b> | <b>0.0421</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.5783</b> | <b>12.5783</b> | <b>3.9000e-004</b> |     | <b>12.5881</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 9.0104        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664        | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>9.2769</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.2900e-003        | 4.5700e-003        | 0.0421        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.5783        | 12.5783        | 3.9000e-004        |     | 12.5881        |
| <b>Total</b> | <b>6.2900e-003</b> | <b>4.5700e-003</b> | <b>0.0421</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.5783</b> | <b>12.5783</b> | <b>3.9000e-004</b> |     | <b>12.5881</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0101        | 0.2509        | 0.0738        | 5.0000e-004        | 0.0123        | 1.9100e-003        | 0.0142        | 3.5300e-003    | 1.8300e-003        | 5.3500e-003   |          | 53.5918         | 53.5918         | 4.8100e-003        |     | 53.7122         |
| Worker       | 0.0408        | 0.0306        | 0.2806        | 7.8000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 77.8201         | 77.8201         | 2.6000e-003        |     | 77.8851         |
| <b>Total</b> | <b>0.0509</b> | <b>0.2815</b> | <b>0.3544</b> | <b>1.2800e-003</b> | <b>0.0889</b> | <b>2.4400e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.3200e-003</b> | <b>0.0262</b> |          | <b>131.4119</b> | <b>131.4119</b> | <b>7.4100e-003</b> |     | <b>131.5973</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0101        | 0.2509        | 0.0738        | 5.0000e-004        | 0.0123        | 1.9100e-003        | 0.0142        | 3.5300e-003    | 1.8300e-003        | 5.3500e-003   |          | 53.5918         | 53.5918         | 4.8100e-003        |     | 53.7122         |
| Worker       | 0.0408        | 0.0306        | 0.2806        | 7.8000e-004        | 0.0766        | 5.3000e-004        | 0.0772        | 0.0203         | 4.9000e-004        | 0.0208        |          | 77.8201         | 77.8201         | 2.6000e-003        |     | 77.8851         |
| <b>Total</b> | <b>0.0509</b> | <b>0.2815</b> | <b>0.3544</b> | <b>1.2800e-003</b> | <b>0.0889</b> | <b>2.4400e-003</b> | <b>0.0913</b> | <b>0.0239</b>  | <b>2.3200e-003</b> | <b>0.0262</b> |          | <b>131.4119</b> | <b>131.4119</b> | <b>7.4100e-003</b> |     | <b>131.5973</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        |          | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> |          | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.7733        | 30.6725        | 16.5770        | 0.0297        |               | 1.5513        | 1.5513        |                | 1.4272        | 1.4272        | 0.0000        | 2,988.0216        | 2,988.0216        | 0.9302        |     | 3,011.2769        |
| <b>Total</b>  | <b>2.7733</b> | <b>30.6725</b> | <b>16.5770</b> | <b>0.0297</b> | <b>6.5523</b> | <b>1.5513</b> | <b>8.1037</b> | <b>3.3675</b>  | <b>1.4272</b> | <b>4.7947</b> | <b>0.0000</b> | <b>2,988.0216</b> | <b>2,988.0216</b> | <b>0.9302</b> |     | <b>3,011.2769</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        |          | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> |          | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6437        | 17.5209        | 14.7964        | 0.0228        |               | 0.9561        | 0.9561        |                | 0.8797        | 0.8797        | 0.0000        | 2,294.0887        | 2,294.0887        | 0.7142        |     | 2,311.9432        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6437</b> | <b>17.5209</b> | <b>14.7964</b> | <b>0.0228</b> |               | <b>0.9561</b> | <b>0.9561</b> |                | <b>0.8797</b> | <b>0.8797</b> | <b>0.0000</b> | <b>2,294.0887</b> | <b>2,294.0887</b> | <b>0.7142</b> |     | <b>2,311.9432</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1020        | 0.0766        | 0.7015        | 1.9500e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 194.5502        | 194.5502        | 6.5000e-003        |     | 194.7127        |
| <b>Total</b> | <b>0.1020</b> | <b>0.0766</b> | <b>0.7015</b> | <b>1.9500e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>194.5502</b> | <b>194.5502</b> | <b>6.5000e-003</b> |     | <b>194.7127</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 2+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 2+, M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.1540 | 0.8202 | 2.0806 | 0.0103 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,062.5813 | 1,062.5813 | 0.0490 |     | 1,063.8072 |
| Unmitigated | 0.1540 | 0.8202 | 2.0806 | 0.0103 | 1.3077        | 3.7600e-003  | 1.3115     | 0.3495         | 3.5000e-003   | 0.3530      |          | 1,062.5813 | 1,062.5813 | 0.0490 |     | 1,063.8072 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |
| Total                 | 160.00                  | 166.56   | 144.80 | 587,538     | 587,538    |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 2+, M - San Diego County, Winter

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |
| NaturalGas Unmitigated | 0.0176 | 0.1500 | 0.0638 | 9.6000e-004 |               | 0.0121       | 0.0121     |                | 0.0121        | 0.0121      |          | 191.4657  | 191.4657  | 3.6700e-003 | 3.5100e-003 | 192.6035 |

## Fallbrook 2+, M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1627.46        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 1.62746        | 0.0176        | 0.1500        | 0.0638        | 9.6000e-004        |               | 0.0121        | 0.0121        |                | 0.0121        | 0.0121        |          | 191.4657        | 191.4657        | 3.6700e-003        | 3.5100e-003        | 192.6035        |
| <b>Total</b>          |                | <b>0.0176</b> | <b>0.1500</b> | <b>0.0638</b> | <b>9.6000e-004</b> |               | <b>0.0121</b> | <b>0.0121</b> |                | <b>0.0121</b> | <b>0.0121</b> |          | <b>191.4657</b> | <b>191.4657</b> | <b>3.6700e-003</b> | <b>3.5100e-003</b> | <b>192.6035</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 2+, M - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Mitigated   | 0.7361 | 0.2806 | 1.4272 | 1.7600e-003 |               | 0.0288       | 0.0288     |                | 0.0288        | 0.0288      | 0.0000   | 341.2004  | 341.2004  | 8.7600e-003 | 6.2100e-003 | 343.2704 |
| Unmitigated | 0.7361 | 0.2806 | 1.4272 | 1.7600e-003 |               | 0.0288       | 0.0288     |                | 0.0288        | 0.0288      | 0.0000   | 341.2004  | 341.2004  | 8.7600e-003 | 6.2100e-003 | 343.2704 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0494        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.6163        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0311        | 0.2654        | 0.1129        | 1.6900e-003        |               | 0.0215        | 0.0215        |                | 0.0215        | 0.0215        | 0.0000        | 338.8235        | 338.8235        | 6.4900e-003        | 6.2100e-003        | 340.8370        |
| Landscaping           | 0.0393        | 0.0152        | 1.3142        | 7.0000e-005        |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |               | 2.3768          | 2.3768          | 2.2600e-003        |                    | 2.4334          |
| <b>Total</b>          | <b>0.7361</b> | <b>0.2806</b> | <b>1.4272</b> | <b>1.7600e-003</b> |               | <b>0.0288</b> | <b>0.0288</b> |                | <b>0.0288</b> | <b>0.0288</b> | <b>0.0000</b> | <b>341.2004</b> | <b>341.2004</b> | <b>8.7500e-003</b> | <b>6.2100e-003</b> | <b>343.2704</b> |

## Fallbrook 2+, M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0494        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.6163        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0311        | 0.2654        | 0.1129        | 1.6900e-003        |               | 0.0215        | 0.0215        |                | 0.0215        | 0.0215        | 0.0000        | 338.8235        | 338.8235        | 6.4900e-003        | 6.2100e-003        | 340.8370        |
| Landscaping           | 0.0393        | 0.0152        | 1.3142        | 7.0000e-005        |               | 7.3200e-003   | 7.3200e-003   |                | 7.3200e-003   | 7.3200e-003   |               | 2.3768          | 2.3768          | 2.2600e-003        |                    | 2.4334          |
| <b>Total</b>          | <b>0.7361</b> | <b>0.2806</b> | <b>1.4272</b> | <b>1.7600e-003</b> |               | <b>0.0288</b> | <b>0.0288</b> |                | <b>0.0288</b> | <b>0.0288</b> | <b>0.0000</b> | <b>341.2004</b> | <b>341.2004</b> | <b>8.7500e-003</b> | <b>6.2100e-003</b> | <b>343.2704</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 2+, M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 17, UM - San Diego County, Summer

**Fallbrook 17, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 33.00 | Dwelling Unit | 10.71       | 59,400.00          | 94         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Fallbrook 17, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/14/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 4/19/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/17/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/18/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/24/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 4/20/2019 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Fallbrook 17, UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 18.8613 | 21.6006 | 17.8314 | 0.0295 | 0.1916        | 1.2941       | 1.4718     | 0.0508         | 1.2167        | 1.2644      | 0.0000   | 2,861.8263 | 2,861.8263 | 0.7203 | 0.0000 | 2,877.9524 |
| Maximum | 18.8613 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |
| 2019    | 18.8613 | 21.6006 | 17.8314 | 0.0295 | 0.1916        | 1.2941       | 1.4718     | 0.0508         | 1.2167        | 1.2644      | 0.0000   | 2,861.8263 | 2,861.8263 | 0.7203 | 0.0000 | 2,877.9524 |
| Maximum | 18.8613 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.8519 | 6,520.8519 | 1.9532 | 0.0000 | 6,569.6814 |

[illegible]

## Fallbrook 17, UM - San Diego County, Summer

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day         |               |                |               |               |               |                |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 51.9571        | 1.0176        | 65.0511        | 0.1131        |               | 8.7558        | 8.7558         |                | 8.7558        | 8.7558        | 916.4671        | 389.2552          | 1,305.7223        | 0.8504        | 0.0721        | 1,348.4646        |
| Energy       | 0.0362         | 0.3093        | 0.1316         | 1.9700e-003   |               | 0.0250        | 0.0250         |                | 0.0250        | 0.0250        |                 | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3243         | 1.6614        | 4.4458         | 0.0223        | 2.6972        | 7.7500e-003   | 2.7049         | 0.7209         | 7.2200e-003   | 0.7281        |                 | 2,299.3957        | 2,299.3957        | 0.1009        |               | 2,301.9179        |
| <b>Total</b> | <b>52.3176</b> | <b>2.9883</b> | <b>69.6285</b> | <b>0.1374</b> | <b>2.6972</b> | <b>8.7886</b> | <b>11.4857</b> | <b>0.7209</b>  | <b>8.7881</b> | <b>9.5089</b> | <b>916.4671</b> | <b>3,083.5490</b> | <b>4,000.0161</b> | <b>0.9589</b> | <b>0.0793</b> | <b>4,047.6272</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     | lb/day         |               |                |               |               |               |                |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 51.9571        | 1.0176        | 65.0511        | 0.1131        |               | 8.7558        | 8.7558         |                | 8.7558        | 8.7558        | 916.4671        | 389.2552          | 1,305.7223        | 0.8504        | 0.0721        | 1,348.4646        |
| Energy       | 0.0362         | 0.3093        | 0.1316         | 1.9700e-003   |               | 0.0250        | 0.0250         |                | 0.0250        | 0.0250        |                 | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3243         | 1.6614        | 4.4458         | 0.0223        | 2.6972        | 7.7500e-003   | 2.7049         | 0.7209         | 7.2200e-003   | 0.7281        |                 | 2,299.3957        | 2,299.3957        | 0.1009        |               | 2,301.9179        |
| <b>Total</b> | <b>52.3176</b> | <b>2.9883</b> | <b>69.6285</b> | <b>0.1374</b> | <b>2.6972</b> | <b>8.7886</b> | <b>11.4857</b> | <b>0.7209</b>  | <b>8.7881</b> | <b>9.5089</b> | <b>916.4671</b> | <b>3,083.5490</b> | <b>4,000.0161</b> | <b>0.9589</b> | <b>0.0793</b> | <b>4,047.6272</b> |

## Fallbrook 17, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/18/2019  | 6/14/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/24/2018  | 4/19/2019 | 5             | 300      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/23/2018 | 5             | 30       |                   |
| 4            | Paving                | Paving                | 4/20/2019  | 5/17/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 120,285; Residential Outdoor: 40,095; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 17, UM - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 2.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 12.00              | 4.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 17, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0109        | 8.1400e-003        | 0.0910        | 2.7000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 26.8089        | 26.8089        | 8.3000e-004        |     | 26.8297        |
| <b>Total</b> | <b>0.0109</b> | <b>8.1400e-003</b> | <b>0.0910</b> | <b>2.7000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>26.8089</b> | <b>26.8089</b> | <b>8.3000e-004</b> |     | <b>26.8297</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0109        | 8.1400e-003        | 0.0910        | 2.7000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 26.8089        | 26.8089        | 8.3000e-004        |     | 26.8297        |
| <b>Total</b> | <b>0.0109</b> | <b>8.1400e-003</b> | <b>0.0910</b> | <b>2.7000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>26.8089</b> | <b>26.8089</b> | <b>8.3000e-004</b> |     | <b>26.8297</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0193        | 0.5017        | 0.1327        | 1.0300e-003        | 0.0245        | 3.7500e-003        | 0.0282        | 7.0500e-003    | 3.5900e-003        | 0.0106        |          | 110.1805        | 110.1805        | 9.0200e-003   |     | 110.4059        |
| Worker       | 0.0707        | 0.0546        | 0.6039        | 1.6700e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 165.8541        | 165.8541        | 5.5200e-003   |     | 165.9921        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5563</b> | <b>0.7366</b> | <b>2.7000e-003</b> | <b>0.1778</b> | <b>4.8100e-003</b> | <b>0.1826</b> | <b>0.0477</b>  | <b>4.5700e-003</b> | <b>0.0523</b> |          | <b>276.0346</b> | <b>276.0346</b> | <b>0.0145</b> |     | <b>276.3980</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0193        | 0.5017        | 0.1327        | 1.0300e-003        | 0.0245        | 3.7500e-003        | 0.0282        | 7.0500e-003    | 3.5900e-003        | 0.0106        |          | 110.1805        | 110.1805        | 9.0200e-003   |     | 110.4059        |
| Worker       | 0.0707        | 0.0546        | 0.6039        | 1.6700e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 165.8541        | 165.8541        | 5.5200e-003   |     | 165.9921        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5563</b> | <b>0.7366</b> | <b>2.7000e-003</b> | <b>0.1778</b> | <b>4.8100e-003</b> | <b>0.1826</b> | <b>0.0477</b>  | <b>4.5700e-003</b> | <b>0.0523</b> |          | <b>276.0346</b> | <b>276.0346</b> | <b>0.0145</b> |     | <b>276.3980</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0173        | 0.4730        | 0.1217        | 1.0200e-003        | 0.0245        | 3.1400e-003        | 0.0276        | 7.0500e-003    | 3.0000e-003        | 0.0101        |          | 109.3928        | 109.3928        | 8.7100e-003   |     | 109.6105        |
| Worker       | 0.0652        | 0.0488        | 0.5459        | 1.6100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 160.8534        | 160.8534        | 5.0000e-003   |     | 160.9785        |
| <b>Total</b> | <b>0.0825</b> | <b>0.5218</b> | <b>0.6676</b> | <b>2.6300e-003</b> | <b>0.1778</b> | <b>4.1900e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>3.9700e-003</b> | <b>0.0517</b> |          | <b>270.2462</b> | <b>270.2462</b> | <b>0.0137</b> |     | <b>270.5889</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0173        | 0.4730        | 0.1217        | 1.0200e-003        | 0.0245        | 3.1400e-003        | 0.0276        | 7.0500e-003    | 3.0000e-003        | 0.0101        |          | 109.3928        | 109.3928        | 8.7100e-003   |     | 109.6105        |
| Worker       | 0.0652        | 0.0488        | 0.5459        | 1.6100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 160.8534        | 160.8534        | 5.0000e-003   |     | 160.9785        |
| <b>Total</b> | <b>0.0825</b> | <b>0.5218</b> | <b>0.6676</b> | <b>2.6300e-003</b> | <b>0.1778</b> | <b>4.1900e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>3.9700e-003</b> | <b>0.0517</b> |          | <b>270.2462</b> | <b>270.2462</b> | <b>0.0137</b> |     | <b>270.5889</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 17, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 17, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.3243 | 1.6614 | 4.4458 | 0.0223 | 2.6972        | 7.7500e-003  | 2.7049     | 0.7209         | 7.2200e-003   | 0.7281      |          | 2,299.3957 | 2,299.3957 | 0.1009 |     | 2,301.9179 |
| Unmitigated | 0.3243 | 1.6614 | 4.4458 | 0.0223 | 2.6972        | 7.7500e-003  | 2.7049     | 0.7209         | 7.2200e-003   | 0.7281      |          | 2,299.3957 | 2,299.3957 | 0.1009 |     | 2,301.9179 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |
| Total                 | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 17, UM - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |
| NaturalGas Unmitigated | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |

## Fallbrook 17, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3356.63        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3.35663        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 17, UM - San Diego County, Summer

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|------------|--------|--------|------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |            |        |        |            |
| Mitigated   | 51.9571 | 1.0176 | 65.0511 | 0.1131 |               | 8.7558       | 8.7558     |                | 8.7558        | 8.7558      | 916.4671 | 389.2552  | 1,305.7223 | 0.8504 | 0.0721 | 1,348.4646 |
| Unmitigated | 51.9571 | 1.0176 | 65.0511 | 0.1131 |               | 8.7558       | 8.7558     |                | 8.7558        | 8.7558      | 916.4671 | 389.2552  | 1,305.7223 | 0.8504 | 0.0721 | 1,348.4646 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                   |               |               |                   |
| Architectural Coating | 0.1018         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 1.2712         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 50.5030        | 0.9863        | 62.3405        | 0.1129        |               | 8.7407        | 8.7407        |                | 8.7407        | 8.7407        | 916.4671        | 384.3529        | 1,300.8201        | 0.8458        | 0.0721        | 1,343.4457        |
| Landscaping           | 0.0811         | 0.0313        | 2.7106         | 1.4000e-004   |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |                 | 4.9022          | 4.9022            | 4.6700e-003   |               | 5.0189            |
| <b>Total</b>          | <b>51.9571</b> | <b>1.0176</b> | <b>65.0511</b> | <b>0.1131</b> |               | <b>8.7558</b> | <b>8.7558</b> |                | <b>8.7558</b> | <b>8.7558</b> | <b>916.4671</b> | <b>389.2552</b> | <b>1,305.7223</b> | <b>0.8504</b> | <b>0.0721</b> | <b>1,348.4646</b> |

## Fallbrook 17, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                   |               |               |                   |
| Architectural Coating | 0.1018         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 1.2712         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 50.5030        | 0.9863        | 62.3405        | 0.1129        |               | 8.7407        | 8.7407        |                | 8.7407        | 8.7407        | 916.4671        | 384.3529        | 1,300.8201        | 0.8458        | 0.0721        | 1,343.4457        |
| Landscaping           | 0.0811         | 0.0313        | 2.7106         | 1.4000e-004   |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |                 | 4.9022          | 4.9022            | 4.6700e-003   |               | 5.0189            |
| <b>Total</b>          | <b>51.9571</b> | <b>1.0176</b> | <b>65.0511</b> | <b>0.1131</b> |               | <b>8.7558</b> | <b>8.7558</b> |                | <b>8.7558</b> | <b>8.7558</b> | <b>916.4671</b> | <b>389.2552</b> | <b>1,305.7223</b> | <b>0.8504</b> | <b>0.0721</b> | <b>1,348.4646</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 17, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 17, M - San Diego County, Summer

**Fallbrook 17, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 33.00 | Dwelling Unit | 10.71       | 59,400.00          | 94         |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 17, M - San Diego County, Summer

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/14/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 4/19/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/17/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/18/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 2/24/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 4/20/2019 |
| tblFireplaces             | NumberGas                       | 18.15      | 33.00     |
| tblFireplaces             | NumberNoFireplace               | 3.30       | 0.00      |
| tblFireplaces             | NumberWood                      | 11.55      | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 1.65       | 0.00      |

## Fallbrook 17, M - San Diego County, Summer

|               |                    |      |      |
|---------------|--------------------|------|------|
| tblWoodstoves | NumberNoncatalytic | 1.65 | 0.00 |
|---------------|--------------------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 18.8613 | 21.6006 | 17.8314 | 0.0295 | 0.1916        | 1.2941       | 1.4718     | 0.0508         | 1.2167        | 1.2644      | 0.0000   | 2,861.826<br>3 | 2,861.826<br>3 | 0.7203 | 0.0000 | 2,877.952<br>4 |
| Maximum | 18.8613 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2079  | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |
| 2019    | 18.8613 | 21.6006 | 17.8314 | 0.0295 | 0.1916        | 1.2941       | 1.4718     | 0.0508         | 1.2167        | 1.2644      | 0.0000   | 2,861.826<br>3 | 2,861.826<br>3 | 0.7203 | 0.0000 | 2,877.952<br>4 |
| Maximum | 18.8613 | 59.6127 | 36.0959 | 0.0648 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,520.851<br>9 | 6,520.851<br>9 | 1.9532 | 0.0000 | 6,569.681<br>4 |

Fallbrook 17, M - San Diego County, Summer

[illegible]

## Fallbrook 17, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 1.5181        | 0.5787        | 2.9435        | 3.6400e-003   |               | 0.0594        | 0.0594        |                | 0.0594        | 0.0594        | 0.0000        | 703.7258          | 703.7258          | 0.0181        | 0.0128        | 707.9952          |
| Energy       | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003   |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |               | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3243        | 1.6614        | 4.4458        | 0.0223        | 2.6972        | 7.7500e-003   | 2.7049        | 0.7209         | 7.2200e-003   | 0.7281        |               | 2,299.3957        | 2,299.3957        | 0.1009        |               | 2,301.9179        |
| <b>Total</b> | <b>1.8786</b> | <b>2.5495</b> | <b>7.5210</b> | <b>0.0279</b> | <b>2.6972</b> | <b>0.0921</b> | <b>2.7893</b> | <b>0.7209</b>  | <b>0.0916</b> | <b>0.8124</b> | <b>0.0000</b> | <b>3,398.0195</b> | <b>3,398.0195</b> | <b>0.1265</b> | <b>0.0201</b> | <b>3,407.1578</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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 1.5181        | 0.5787        | 2.9435        | 3.6400e-003   |               | 0.0594        | 0.0594        |                | 0.0594        | 0.0594        | 0.0000        | 703.7258          | 703.7258          | 0.0181        | 0.0128        | 707.9952          |
| Energy       | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003   |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |               | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3243        | 1.6614        | 4.4458        | 0.0223        | 2.6972        | 7.7500e-003   | 2.7049        | 0.7209         | 7.2200e-003   | 0.7281        |               | 2,299.3957        | 2,299.3957        | 0.1009        |               | 2,301.9179        |
| <b>Total</b> | <b>1.8786</b> | <b>2.5495</b> | <b>7.5210</b> | <b>0.0279</b> | <b>2.6972</b> | <b>0.0921</b> | <b>2.7893</b> | <b>0.7209</b>  | <b>0.0916</b> | <b>0.8124</b> | <b>0.0000</b> | <b>3,398.0195</b> | <b>3,398.0195</b> | <b>0.1265</b> | <b>0.0201</b> | <b>3,407.1578</b> |

## Fallbrook 17, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/18/2019  | 6/14/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/24/2018  | 4/19/2019 | 5             | 300      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/23/2018 | 5             | 30       |                   |
| 4            | Paving                | Paving                | 4/20/2019  | 5/17/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 120,285; Residential Outdoor: 40,095; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 17, M - San Diego County, Summer

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 2.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 12.00              | 4.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 17, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0109        | 8.1400e-003        | 0.0910        | 2.7000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 26.8089        | 26.8089        | 8.3000e-004        |     | 26.8297        |
| <b>Total</b> | <b>0.0109</b> | <b>8.1400e-003</b> | <b>0.0910</b> | <b>2.7000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>26.8089</b> | <b>26.8089</b> | <b>8.3000e-004</b> |     | <b>26.8297</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0109        | 8.1400e-003        | 0.0910        | 2.7000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 26.8089        | 26.8089        | 8.3000e-004        |     | 26.8297        |
| <b>Total</b> | <b>0.0109</b> | <b>8.1400e-003</b> | <b>0.0910</b> | <b>2.7000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>26.8089</b> | <b>26.8089</b> | <b>8.3000e-004</b> |     | <b>26.8297</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0193        | 0.5017        | 0.1327        | 1.0300e-003        | 0.0245        | 3.7500e-003        | 0.0282        | 7.0500e-003    | 3.5900e-003        | 0.0106        |          | 110.1805        | 110.1805        | 9.0200e-003   |     | 110.4059        |
| Worker       | 0.0707        | 0.0546        | 0.6039        | 1.6700e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 165.8541        | 165.8541        | 5.5200e-003   |     | 165.9921        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5563</b> | <b>0.7366</b> | <b>2.7000e-003</b> | <b>0.1778</b> | <b>4.8100e-003</b> | <b>0.1826</b> | <b>0.0477</b>  | <b>4.5700e-003</b> | <b>0.0523</b> |          | <b>276.0346</b> | <b>276.0346</b> | <b>0.0145</b> |     | <b>276.3980</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0193        | 0.5017        | 0.1327        | 1.0300e-003        | 0.0245        | 3.7500e-003        | 0.0282        | 7.0500e-003    | 3.5900e-003        | 0.0106        |          | 110.1805        | 110.1805        | 9.0200e-003   |     | 110.4059        |
| Worker       | 0.0707        | 0.0546        | 0.6039        | 1.6700e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 165.8541        | 165.8541        | 5.5200e-003   |     | 165.9921        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5563</b> | <b>0.7366</b> | <b>2.7000e-003</b> | <b>0.1778</b> | <b>4.8100e-003</b> | <b>0.1826</b> | <b>0.0477</b>  | <b>4.5700e-003</b> | <b>0.0523</b> |          | <b>276.0346</b> | <b>276.0346</b> | <b>0.0145</b> |     | <b>276.3980</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0173        | 0.4730        | 0.1217        | 1.0200e-003        | 0.0245        | 3.1400e-003        | 0.0276        | 7.0500e-003    | 3.0000e-003        | 0.0101        |          | 109.3928        | 109.3928        | 8.7100e-003   |     | 109.6105        |
| Worker       | 0.0652        | 0.0488        | 0.5459        | 1.6100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 160.8534        | 160.8534        | 5.0000e-003   |     | 160.9785        |
| <b>Total</b> | <b>0.0825</b> | <b>0.5218</b> | <b>0.6676</b> | <b>2.6300e-003</b> | <b>0.1778</b> | <b>4.1900e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>3.9700e-003</b> | <b>0.0517</b> |          | <b>270.2462</b> | <b>270.2462</b> | <b>0.0137</b> |     | <b>270.5889</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0173        | 0.4730        | 0.1217        | 1.0200e-003        | 0.0245        | 3.1400e-003        | 0.0276        | 7.0500e-003    | 3.0000e-003        | 0.0101        |          | 109.3928        | 109.3928        | 8.7100e-003   |     | 109.6105        |
| Worker       | 0.0652        | 0.0488        | 0.5459        | 1.6100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 160.8534        | 160.8534        | 5.0000e-003   |     | 160.9785        |
| <b>Total</b> | <b>0.0825</b> | <b>0.5218</b> | <b>0.6676</b> | <b>2.6300e-003</b> | <b>0.1778</b> | <b>4.1900e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>3.9700e-003</b> | <b>0.0517</b> |          | <b>270.2462</b> | <b>270.2462</b> | <b>0.0137</b> |     | <b>270.5889</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1178        | 0.0910        | 1.0065        | 2.7800e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 276.4235        | 276.4235        | 9.2000e-003        |     | 276.6536        |
| <b>Total</b> | <b>0.1178</b> | <b>0.0910</b> | <b>1.0065</b> | <b>2.7800e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>276.4235</b> | <b>276.4235</b> | <b>9.2000e-003</b> |     | <b>276.6536</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0815        | 0.0610        | 0.6824        | 2.0200e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 201.0668        | 201.0668        | 6.2500e-003        |     | 201.2231        |
| <b>Total</b> | <b>0.0815</b> | <b>0.0610</b> | <b>0.6824</b> | <b>2.0200e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>201.0668</b> | <b>201.0668</b> | <b>6.2500e-003</b> |     | <b>201.2231</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 17, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 17, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.3243 | 1.6614 | 4.4458 | 0.0223 | 2.6972        | 7.7500e-003  | 2.7049     | 0.7209         | 7.2200e-003   | 0.7281      |          | 2,299.3957 | 2,299.3957 | 0.1009 |     | 2,301.9179 |
| Unmitigated | 0.3243 | 1.6614 | 4.4458 | 0.0223 | 2.6972        | 7.7500e-003  | 2.7049     | 0.7209         | 7.2200e-003   | 0.7281      |          | 2,299.3957 | 2,299.3957 | 0.1009 |     | 2,301.9179 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |
| Total                 | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 17, M - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |
| NaturalGas Unmitigated | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |

## Fallbrook 17, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3356.63        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3.35663        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 17, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 1.5181 | 0.5787 | 2.9435 | 3.6400e-003 |               | 0.0594       | 0.0594     |                | 0.0594        | 0.0594      | 0.0000   | 703.7258  | 703.7258  | 0.0181 | 0.0128 | 707.9952 |
| Unmitigated | 1.5181 | 0.5787 | 2.9435 | 3.6400e-003 |               | 0.0594       | 0.0594     |                | 0.0594        | 0.0594      | 0.0000   | 703.7258  | 703.7258  | 0.0181 | 0.0128 | 707.9952 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |               |                 |
| Architectural Coating | 0.1018        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 1.2712        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 0.0641        | 0.5474        | 0.2329        | 3.4900e-003        |               | 0.0443        | 0.0443        |                | 0.0443        | 0.0443        | 0.0000        | 698.8235        | 698.8235        | 0.0134        | 0.0128        | 702.9763        |
| Landscaping           | 0.0811        | 0.0313        | 2.7106        | 1.4000e-004        |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |               | 4.9022          | 4.9022          | 4.6700e-003   |               | 5.0189          |
| <b>Total</b>          | <b>1.5181</b> | <b>0.5787</b> | <b>2.9435</b> | <b>3.6300e-003</b> |               | <b>0.0594</b> | <b>0.0594</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>703.7258</b> | <b>703.7258</b> | <b>0.0181</b> | <b>0.0128</b> | <b>707.9952</b> |

## Fallbrook 17, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |               |                 |
| Architectural Coating | 0.1018        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 1.2712        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 0.0641        | 0.5474        | 0.2329        | 3.4900e-003        |               | 0.0443        | 0.0443        |                | 0.0443        | 0.0443        | 0.0000        | 698.8235        | 698.8235        | 0.0134        | 0.0128        | 702.9763        |
| Landscaping           | 0.0811        | 0.0313        | 2.7106        | 1.4000e-004        |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |               | 4.9022          | 4.9022          | 4.6700e-003   |               | 5.0189          |
| <b>Total</b>          | <b>1.5181</b> | <b>0.5787</b> | <b>2.9435</b> | <b>3.6300e-003</b> |               | <b>0.0594</b> | <b>0.0594</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>703.7258</b> | <b>703.7258</b> | <b>0.0181</b> | <b>0.0128</b> | <b>707.9952</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 17, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 17, UM - San Diego County, Winter

**Fallbrook 17, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 33.00 | Dwelling Unit | 10.71       | 59,400.00          | 94         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

## Fallbrook 17, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/14/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 4/19/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 2/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/17/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/18/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 2/24/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 4/20/2019 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Fallbrook 17, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 18.8631 | 21.6062 | 17.8047 | 0.0294 | 0.1916        | 1.2941       | 1.4719     | 0.0508         | 1.2168        | 1.2645      | 0.0000   | 2,848.9056 | 2,848.9056 | 0.7200 | 0.0000 | 2,865.0388 |
| Maximum | 18.8631 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |
| 2019    | 18.8631 | 21.6062 | 17.8047 | 0.0294 | 0.1916        | 1.2941       | 1.4719     | 0.0508         | 1.2168        | 1.2645      | 0.0000   | 2,848.9056 | 2,848.9056 | 0.7200 | 0.0000 | 2,865.0388 |
| Maximum | 18.8631 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.8287 | 6,503.8287 | 1.9527 | 0.0000 | 6,552.6447 |

[illegible]

## Fallbrook 17, UM - San Diego County, Winter

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day         |               |                |               |               |               |                |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 51.9571        | 1.0176        | 65.0511        | 0.1131        |               | 8.7558        | 8.7558         |                | 8.7558        | 8.7558        | 916.4671        | 389.2552          | 1,305.7223        | 0.8504        | 0.0721        | 1,348.4646        |
| Energy       | 0.0362         | 0.3093        | 0.1316         | 1.9700e-003   |               | 0.0250        | 0.0250         |                | 0.0250        | 0.0250        |                 | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3177         | 1.6917        | 4.2912         | 0.0213        | 2.6972        | 7.7600e-003   | 2.7049         | 0.7209         | 7.2300e-003   | 0.7281        |                 | 2,191.5740        | 2,191.5740        | 0.1011        |               | 2,194.1023        |
| <b>Total</b> | <b>52.3110</b> | <b>3.0186</b> | <b>69.4739</b> | <b>0.1363</b> | <b>2.6972</b> | <b>8.7886</b> | <b>11.4858</b> | <b>0.7209</b>  | <b>8.7881</b> | <b>9.5089</b> | <b>916.4671</b> | <b>2,975.7272</b> | <b>3,892.1943</b> | <b>0.9591</b> | <b>0.0793</b> | <b>3,939.8115</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     | lb/day         |               |                |               |               |               |                |                |               |               | lb/day          |                   |                   |               |               |                   |
| Area         | 51.9571        | 1.0176        | 65.0511        | 0.1131        |               | 8.7558        | 8.7558         |                | 8.7558        | 8.7558        | 916.4671        | 389.2552          | 1,305.7223        | 0.8504        | 0.0721        | 1,348.4646        |
| Energy       | 0.0362         | 0.3093        | 0.1316         | 1.9700e-003   |               | 0.0250        | 0.0250         |                | 0.0250        | 0.0250        |                 | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3177         | 1.6917        | 4.2912         | 0.0213        | 2.6972        | 7.7600e-003   | 2.7049         | 0.7209         | 7.2300e-003   | 0.7281        |                 | 2,191.5740        | 2,191.5740        | 0.1011        |               | 2,194.1023        |
| <b>Total</b> | <b>52.3110</b> | <b>3.0186</b> | <b>69.4739</b> | <b>0.1363</b> | <b>2.6972</b> | <b>8.7886</b> | <b>11.4858</b> | <b>0.7209</b>  | <b>8.7881</b> | <b>9.5089</b> | <b>916.4671</b> | <b>2,975.7272</b> | <b>3,892.1943</b> | <b>0.9591</b> | <b>0.0793</b> | <b>3,939.8115</b> |

## Fallbrook 17, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/18/2019  | 6/14/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/24/2018  | 4/19/2019 | 5             | 300      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/23/2018 | 5             | 30       |                   |
| 4            | Paving                | Paving                | 4/20/2019  | 5/17/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 120,285; Residential Outdoor: 40,095; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 17, UM - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 2.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 12.00              | 4.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 17, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0126        | 9.1300e-003        | 0.0842        | 2.5000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 25.1566        | 25.1566        | 7.8000e-004        |     | 25.1761        |
| <b>Total</b> | <b>0.0126</b> | <b>9.1300e-003</b> | <b>0.0842</b> | <b>2.5000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>25.1566</b> | <b>25.1566</b> | <b>7.8000e-004</b> |     | <b>25.1761</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0126        | 9.1300e-003        | 0.0842        | 2.5000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 25.1566        | 25.1566        | 7.8000e-004        |     | 25.1761        |
| <b>Total</b> | <b>0.0126</b> | <b>9.1300e-003</b> | <b>0.0842</b> | <b>2.5000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>25.1566</b> | <b>25.1566</b> | <b>7.8000e-004</b> |     | <b>25.1761</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0202        | 0.5017        | 0.1476        | 1.0000e-003        | 0.0245        | 3.8200e-003        | 0.0283        | 7.0500e-003    | 3.6500e-003        | 0.0107        |          | 107.1837        | 107.1837        | 9.6300e-003   |     | 107.4243        |
| Worker       | 0.0816        | 0.0613        | 0.5612        | 1.5600e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 155.6402        | 155.6402        | 5.2000e-003   |     | 155.7702        |
| <b>Total</b> | <b>0.1018</b> | <b>0.5630</b> | <b>0.7089</b> | <b>2.5600e-003</b> | <b>0.1778</b> | <b>4.8800e-003</b> | <b>0.1827</b> | <b>0.0477</b>  | <b>4.6300e-003</b> | <b>0.0523</b> |          | <b>262.8239</b> | <b>262.8239</b> | <b>0.0148</b> |     | <b>263.1945</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0202        | 0.5017        | 0.1476        | 1.0000e-003        | 0.0245        | 3.8200e-003        | 0.0283        | 7.0500e-003    | 3.6500e-003        | 0.0107        |          | 107.1837        | 107.1837        | 9.6300e-003   |     | 107.4243        |
| Worker       | 0.0816        | 0.0613        | 0.5612        | 1.5600e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 155.6402        | 155.6402        | 5.2000e-003   |     | 155.7702        |
| <b>Total</b> | <b>0.1018</b> | <b>0.5630</b> | <b>0.7089</b> | <b>2.5600e-003</b> | <b>0.1778</b> | <b>4.8800e-003</b> | <b>0.1827</b> | <b>0.0477</b>  | <b>4.6300e-003</b> | <b>0.0523</b> |          | <b>262.8239</b> | <b>262.8239</b> | <b>0.0148</b> |     | <b>263.1945</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0180        | 0.4726        | 0.1357        | 9.9000e-004        | 0.0245        | 3.2000e-003        | 0.0277        | 7.0500e-003    | 3.0600e-003        | 0.0101        |          | 106.3862        | 106.3862        | 9.2900e-003   |     | 106.6186        |
| Worker       | 0.0755        | 0.0548        | 0.5053        | 1.5100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 150.9393        | 150.9393        | 4.7000e-003   |     | 151.0568        |
| <b>Total</b> | <b>0.0935</b> | <b>0.5274</b> | <b>0.6410</b> | <b>2.5000e-003</b> | <b>0.1778</b> | <b>4.2500e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>4.0300e-003</b> | <b>0.0517</b> |          | <b>257.3255</b> | <b>257.3255</b> | <b>0.0140</b> |     | <b>257.6753</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0180        | 0.4726        | 0.1357        | 9.9000e-004        | 0.0245        | 3.2000e-003        | 0.0277        | 7.0500e-003    | 3.0600e-003        | 0.0101        |          | 106.3862        | 106.3862        | 9.2900e-003   |     | 106.6186        |
| Worker       | 0.0755        | 0.0548        | 0.5053        | 1.5100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 150.9393        | 150.9393        | 4.7000e-003   |     | 151.0568        |
| <b>Total</b> | <b>0.0935</b> | <b>0.5274</b> | <b>0.6410</b> | <b>2.5000e-003</b> | <b>0.1778</b> | <b>4.2500e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>4.0300e-003</b> | <b>0.0517</b> |          | <b>257.3255</b> | <b>257.3255</b> | <b>0.0140</b> |     | <b>257.6753</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 17, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 17, UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.3177 | 1.6917 | 4.2912 | 0.0213 | 2.6972        | 7.7600e-003  | 2.7049     | 0.7209         | 7.2300e-003   | 0.7281      |          | 2,191.5740 | 2,191.5740 | 0.1011 |     | 2,194.1023 |
| Unmitigated | 0.3177 | 1.6917 | 4.2912 | 0.0213 | 2.6972        | 7.7600e-003  | 2.7049     | 0.7209         | 7.2300e-003   | 0.7281      |          | 2,191.5740 | 2,191.5740 | 0.1011 |     | 2,194.1023 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |
| Total                 | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

Fallbrook 17, UM - San Diego County, Winter

## 5.0 Energy Detail

---

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

---

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |
| NaturalGas Unmitigated | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |

## Fallbrook 17, UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3356.63        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3.35663        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 17, UM - San Diego County, Winter

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|------------|--------|--------|------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |            |        |        |            |
| Mitigated   | 51.9571 | 1.0176 | 65.0511 | 0.1131 |               | 8.7558       | 8.7558     |                | 8.7558        | 8.7558      | 916.4671 | 389.2552  | 1,305.7223 | 0.8504 | 0.0721 | 1,348.4646 |
| Unmitigated | 51.9571 | 1.0176 | 65.0511 | 0.1131 |               | 8.7558       | 8.7558     |                | 8.7558        | 8.7558      | 916.4671 | 389.2552  | 1,305.7223 | 0.8504 | 0.0721 | 1,348.4646 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                   |               |               |                   |
| Architectural Coating | 0.1018         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 1.2712         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 50.5030        | 0.9863        | 62.3405        | 0.1129        |               | 8.7407        | 8.7407        |                | 8.7407        | 8.7407        | 916.4671        | 384.3529        | 1,300.8201        | 0.8458        | 0.0721        | 1,343.4457        |
| Landscaping           | 0.0811         | 0.0313        | 2.7106         | 1.4000e-004   |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |                 | 4.9022          | 4.9022            | 4.6700e-003   |               | 5.0189            |
| <b>Total</b>          | <b>51.9571</b> | <b>1.0176</b> | <b>65.0511</b> | <b>0.1131</b> |               | <b>8.7558</b> | <b>8.7558</b> |                | <b>8.7558</b> | <b>8.7558</b> | <b>916.4671</b> | <b>389.2552</b> | <b>1,305.7223</b> | <b>0.8504</b> | <b>0.0721</b> | <b>1,348.4646</b> |

## Fallbrook 17, UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                   |               |               |                   |
| Architectural Coating | 0.1018         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 1.2712         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                 | 0.0000            |               |               | 0.0000            |
| Hearth                | 50.5030        | 0.9863        | 62.3405        | 0.1129        |               | 8.7407        | 8.7407        |                | 8.7407        | 8.7407        | 916.4671        | 384.3529        | 1,300.8201        | 0.8458        | 0.0721        | 1,343.4457        |
| Landscaping           | 0.0811         | 0.0313        | 2.7106         | 1.4000e-004   |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |                 | 4.9022          | 4.9022            | 4.6700e-003   |               | 5.0189            |
| <b>Total</b>          | <b>51.9571</b> | <b>1.0176</b> | <b>65.0511</b> | <b>0.1131</b> |               | <b>8.7558</b> | <b>8.7558</b> |                | <b>8.7558</b> | <b>8.7558</b> | <b>916.4671</b> | <b>389.2552</b> | <b>1,305.7223</b> | <b>0.8504</b> | <b>0.0721</b> | <b>1,348.4646</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 17, UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 17, M - San Diego County, Winter

**Fallbrook 17, M**  
**San Diego County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 33.00 | Dwelling Unit | 10.71       | 59,400.00          | 94         |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coatings)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 17, M - San Diego County, Winter

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/14/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 4/19/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 2/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/17/2019 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/12/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/18/2019 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 2/24/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/13/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 4/20/2019 |
| tblFireplaces             | NumberGas                       | 18.15      | 33.00     |
| tblFireplaces             | NumberNoFireplace               | 3.30       | 0.00      |
| tblFireplaces             | NumberWood                      | 11.55      | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 1.65       | 0.00      |

## Fallbrook 17, M - San Diego County, Winter

|               |                    |      |      |
|---------------|--------------------|------|------|
| tblWoodstoves | NumberNoncatalytic | 1.65 | 0.00 |
|---------------|--------------------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 18.8631 | 21.6062 | 17.8047 | 0.0294 | 0.1916        | 1.2941       | 1.4719     | 0.0508         | 1.2168        | 1.2645      | 0.0000   | 2,848.905<br>6 | 2,848.905<br>6 | 0.7200 | 0.0000 | 2,865.038<br>8 |
| Maximum | 18.8631 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 5.2262  | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |
| 2019    | 18.8631 | 21.6062 | 17.8047 | 0.0294 | 0.1916        | 1.2941       | 1.4719     | 0.0508         | 1.2168        | 1.2645      | 0.0000   | 2,848.905<br>6 | 2,848.905<br>6 | 0.7200 | 0.0000 | 2,865.038<br>8 |
| Maximum | 18.8631 | 59.6239 | 36.0248 | 0.0646 | 18.2962       | 2.6355       | 20.8747    | 9.9917         | 2.4247        | 12.3639     | 0.0000   | 6,503.828<br>7 | 6,503.828<br>7 | 1.9527 | 0.0000 | 6,552.644<br>7 |

Fallbrook 17, M - San Diego County, Winter

[illegible]

## Fallbrook 17, M - San Diego County, Winter

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 1.5181        | 0.5787        | 2.9435        | 3.6400e-003   |               | 0.0594        | 0.0594        |                | 0.0594        | 0.0594        | 0.0000        | 703.7258          | 703.7258          | 0.0181        | 0.0128        | 707.9952          |
| Energy       | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003   |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |               | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3177        | 1.6917        | 4.2912        | 0.0213        | 2.6972        | 7.7600e-003   | 2.7049        | 0.7209         | 7.2300e-003   | 0.7281        |               | 2,191.5740        | 2,191.5740        | 0.1011        |               | 2,194.1023        |
| <b>Total</b> | <b>1.8720</b> | <b>2.5798</b> | <b>7.3664</b> | <b>0.0269</b> | <b>2.6972</b> | <b>0.0921</b> | <b>2.7893</b> | <b>0.7209</b>  | <b>0.0916</b> | <b>0.8125</b> | <b>0.0000</b> | <b>3,290.1978</b> | <b>3,290.1978</b> | <b>0.1268</b> | <b>0.0201</b> | <b>3,299.3422</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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 1.5181        | 0.5787        | 2.9435        | 3.6400e-003   |               | 0.0594        | 0.0594        |                | 0.0594        | 0.0594        | 0.0000        | 703.7258          | 703.7258          | 0.0181        | 0.0128        | 707.9952          |
| Energy       | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003   |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |               | 394.8981          | 394.8981          | 7.5700e-003   | 7.2400e-003   | 397.2447          |
| Mobile       | 0.3177        | 1.6917        | 4.2912        | 0.0213        | 2.6972        | 7.7600e-003   | 2.7049        | 0.7209         | 7.2300e-003   | 0.7281        |               | 2,191.5740        | 2,191.5740        | 0.1011        |               | 2,194.1023        |
| <b>Total</b> | <b>1.8720</b> | <b>2.5798</b> | <b>7.3664</b> | <b>0.0269</b> | <b>2.6972</b> | <b>0.0921</b> | <b>2.7893</b> | <b>0.7209</b>  | <b>0.0916</b> | <b>0.8125</b> | <b>0.0000</b> | <b>3,290.1978</b> | <b>3,290.1978</b> | <b>0.1268</b> | <b>0.0201</b> | <b>3,299.3422</b> |

## Fallbrook 17, M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/18/2019  | 6/14/2019 | 5             | 20       |                   |
| 2            | Building Construction | Building Construction | 2/24/2018  | 4/19/2019 | 5             | 300      |                   |
| 3            | Grading               | Grading               | 1/13/2018  | 2/23/2018 | 5             | 30       |                   |
| 4            | Paving                | Paving                | 4/20/2019  | 5/17/2019 | 5             | 20       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/12/2018 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 120,285; Residential Outdoor: 40,095; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 17, M - San Diego County, Winter

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 2.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 12.00              | 4.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

## Fallbrook 17, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        |          | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0126        | 9.1300e-003        | 0.0842        | 2.5000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 25.1566        | 25.1566        | 7.8000e-004        |     | 25.1761        |
| <b>Total</b> | <b>0.0126</b> | <b>9.1300e-003</b> | <b>0.0842</b> | <b>2.5000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>25.1566</b> | <b>25.1566</b> | <b>7.8000e-004</b> |     | <b>25.1761</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.2 Architectural Coating - 2019****Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 18.5840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2664         | 1.8354        | 1.8413        | 2.9700e-003        |               | 0.1288        | 0.1288        |                | 0.1288        | 0.1288        | 0.0000        | 281.4481        | 281.4481        | 0.0238        |     | 282.0423        |
| <b>Total</b>    | <b>18.8505</b> | <b>1.8354</b> | <b>1.8413</b> | <b>2.9700e-003</b> |               | <b>0.1288</b> | <b>0.1288</b> |                | <b>0.1288</b> | <b>0.1288</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0238</b> |     | <b>282.0423</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0126        | 9.1300e-003        | 0.0842        | 2.5000e-004        | 0.0256        | 1.8000e-004        | 0.0257        | 6.7700e-003        | 1.6000e-004        | 6.9400e-003        |          | 25.1566        | 25.1566        | 7.8000e-004        |     | 25.1761        |
| <b>Total</b> | <b>0.0126</b> | <b>9.1300e-003</b> | <b>0.0842</b> | <b>2.5000e-004</b> | <b>0.0256</b> | <b>1.8000e-004</b> | <b>0.0257</b> | <b>6.7700e-003</b> | <b>1.6000e-004</b> | <b>6.9400e-003</b> |          | <b>25.1566</b> | <b>25.1566</b> | <b>7.8000e-004</b> |     | <b>25.1761</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        |          | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> |          | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0202        | 0.5017        | 0.1476        | 1.0000e-003        | 0.0245        | 3.8200e-003        | 0.0283        | 7.0500e-003    | 3.6500e-003        | 0.0107        |          | 107.1837        | 107.1837        | 9.6300e-003   |     | 107.4243        |
| Worker       | 0.0816        | 0.0613        | 0.5612        | 1.5600e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 155.6402        | 155.6402        | 5.2000e-003   |     | 155.7702        |
| <b>Total</b> | <b>0.1018</b> | <b>0.5630</b> | <b>0.7089</b> | <b>2.5600e-003</b> | <b>0.1778</b> | <b>4.8800e-003</b> | <b>0.1827</b> | <b>0.0477</b>  | <b>4.6300e-003</b> | <b>0.0523</b> |          | <b>262.8239</b> | <b>262.8239</b> | <b>0.0148</b> |     | <b>263.1945</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.6795        | 23.3900        | 17.5804        | 0.0269        |               | 1.4999        | 1.4999        |                | 1.4099        | 1.4099        | 0.0000        | 2,620.935<br>1         | 2,620.935<br>1         | 0.6421        |     | 2,636.988<br>3         |
| <b>Total</b> | <b>2.6795</b> | <b>23.3900</b> | <b>17.5804</b> | <b>0.0269</b> |               | <b>1.4999</b> | <b>1.4999</b> |                | <b>1.4099</b> | <b>1.4099</b> | <b>0.0000</b> | <b>2,620.935<br/>1</b> | <b>2,620.935<br/>1</b> | <b>0.6421</b> |     | <b>2,636.988<br/>3</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0202        | 0.5017        | 0.1476        | 1.0000e-003        | 0.0245        | 3.8200e-003        | 0.0283        | 7.0500e-003    | 3.6500e-003        | 0.0107        |          | 107.1837        | 107.1837        | 9.6300e-003   |     | 107.4243        |
| Worker       | 0.0816        | 0.0613        | 0.5612        | 1.5600e-003        | 0.1533        | 1.0600e-003        | 0.1543        | 0.0407         | 9.8000e-004        | 0.0416        |          | 155.6402        | 155.6402        | 5.2000e-003   |     | 155.7702        |
| <b>Total</b> | <b>0.1018</b> | <b>0.5630</b> | <b>0.7089</b> | <b>2.5600e-003</b> | <b>0.1778</b> | <b>4.8800e-003</b> | <b>0.1827</b> | <b>0.0477</b>  | <b>4.6300e-003</b> | <b>0.0523</b> |          | <b>262.8239</b> | <b>262.8239</b> | <b>0.0148</b> |     | <b>263.1945</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.3 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        |          | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> |          | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0180        | 0.4726        | 0.1357        | 9.9000e-004        | 0.0245        | 3.2000e-003        | 0.0277        | 7.0500e-003    | 3.0600e-003        | 0.0101        |          | 106.3862        | 106.3862        | 9.2900e-003   |     | 106.6186        |
| Worker       | 0.0755        | 0.0548        | 0.5053        | 1.5100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 150.9393        | 150.9393        | 4.7000e-003   |     | 151.0568        |
| <b>Total</b> | <b>0.0935</b> | <b>0.5274</b> | <b>0.6410</b> | <b>2.5000e-003</b> | <b>0.1778</b> | <b>4.2500e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>4.0300e-003</b> | <b>0.0517</b> |          | <b>257.3255</b> | <b>257.3255</b> | <b>0.0140</b> |     | <b>257.6753</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.3 Building Construction - 2019****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.3612        | 21.0788        | 17.1638        | 0.0269        |               | 1.2899        | 1.2899        |                | 1.2127        | 1.2127        | 0.0000        | 2,591.580<br>2         | 2,591.580<br>2         | 0.6313        |     | 2,607.363<br>5         |
| <b>Total</b> | <b>2.3612</b> | <b>21.0788</b> | <b>17.1638</b> | <b>0.0269</b> |               | <b>1.2899</b> | <b>1.2899</b> |                | <b>1.2127</b> | <b>1.2127</b> | <b>0.0000</b> | <b>2,591.580<br/>2</b> | <b>2,591.580<br/>2</b> | <b>0.6313</b> |     | <b>2,607.363<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0180        | 0.4726        | 0.1357        | 9.9000e-004        | 0.0245        | 3.2000e-003        | 0.0277        | 7.0500e-003    | 3.0600e-003        | 0.0101        |          | 106.3862        | 106.3862        | 9.2900e-003   |     | 106.6186        |
| Worker       | 0.0755        | 0.0548        | 0.5053        | 1.5100e-003        | 0.1533        | 1.0500e-003        | 0.1543        | 0.0407         | 9.7000e-004        | 0.0416        |          | 150.9393        | 150.9393        | 4.7000e-003   |     | 151.0568        |
| <b>Total</b> | <b>0.0935</b> | <b>0.5274</b> | <b>0.6410</b> | <b>2.5000e-003</b> | <b>0.1778</b> | <b>4.2500e-003</b> | <b>0.1820</b> | <b>0.0477</b>  | <b>4.0300e-003</b> | <b>0.0517</b> |          | <b>257.3255</b> | <b>257.3255</b> | <b>0.0140</b> |     | <b>257.6753</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        |          | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> |          | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 5.0901        | 59.5218        | 35.0894        | 0.0620        |               | 2.6337        | 2.6337         |                | 2.4230        | 2.4230        | 0.0000        | 6,244.428<br>4         | 6,244.428<br>4         | 1.9440        |     | 6,293.027<br>8         |
| <b>Total</b>  | <b>5.0901</b> | <b>59.5218</b> | <b>35.0894</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.6337</b> | <b>11.3071</b> | <b>3.5965</b>  | <b>2.4230</b> | <b>6.0195</b> | <b>0.0000</b> | <b>6,244.428<br/>4</b> | <b>6,244.428<br/>4</b> | <b>1.9440</b> |     | <b>6,293.027<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1361        | 0.1021        | 0.9354        | 2.6000e-003        | 0.2555        | 1.7700e-003        | 0.2572        | 0.0678         | 1.6300e-003        | 0.0694        |          | 259.4003        | 259.4003        | 8.6700e-003        |     | 259.6169        |
| <b>Total</b> | <b>0.1361</b> | <b>0.1021</b> | <b>0.9354</b> | <b>2.6000e-003</b> | <b>0.2555</b> | <b>1.7700e-003</b> | <b>0.2572</b> | <b>0.0678</b>  | <b>1.6300e-003</b> | <b>0.0694</b> |          | <b>259.4003</b> | <b>259.4003</b> | <b>8.6700e-003</b> |     | <b>259.6169</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.5 Paving - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.5 Paving - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0944        | 0.0685        | 0.6316        | 1.8900e-003        | 0.1916        | 1.3100e-003        | 0.1929        | 0.0508         | 1.2100e-003        | 0.0520        |          | 188.6741        | 188.6741        | 5.8700e-003        |     | 188.8210        |
| <b>Total</b> | <b>0.0944</b> | <b>0.0685</b> | <b>0.6316</b> | <b>1.8900e-003</b> | <b>0.1916</b> | <b>1.3100e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2100e-003</b> | <b>0.0520</b> |          | <b>188.6741</b> | <b>188.6741</b> | <b>5.8700e-003</b> |     | <b>188.8210</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         |          | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> |          | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 17, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.5627        | 48.1988        | 22.4763        | 0.0380        |                | 2.5769        | 2.5769         |                | 2.3708        | 2.3708         | 0.0000        | 3,831.623<br>9         | 3,831.623<br>9         | 1.1928        |     | 3,861.444<br>8         |
| <b>Total</b>  | <b>4.5627</b> | <b>48.1988</b> | <b>22.4763</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.5769</b> | <b>20.6432</b> | <b>9.9307</b>  | <b>2.3708</b> | <b>12.3014</b> | <b>0.0000</b> | <b>3,831.623<br/>9</b> | <b>3,831.623<br/>9</b> | <b>1.1928</b> |     | <b>3,861.444<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 17, M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 0.3177 | 1.6917 | 4.2912 | 0.0213 | 2.6972        | 7.7600e-003  | 2.7049     | 0.7209         | 7.2300e-003   | 0.7281      |          | 2,191.5740 | 2,191.5740 | 0.1011 |     | 2,194.1023 |
| Unmitigated | 0.3177 | 1.6917 | 4.2912 | 0.0213 | 2.6972        | 7.7600e-003  | 2.7049     | 0.7209         | 7.2300e-003   | 0.7281      |          | 2,191.5740 | 2,191.5740 | 0.1011 |     | 2,194.1023 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |
| Total                 | 330.00                  | 343.53   | 298.65 | 1,211,797   | 1,211,797  |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 17, M - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| NaturalGas Mitigated   | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |
| NaturalGas Unmitigated | 0.0362 | 0.3093 | 0.1316 | 1.9700e-003 |               | 0.0250       | 0.0250     |                | 0.0250        | 0.0250      |          | 394.8981  | 394.8981  | 7.5700e-003 | 7.2400e-003 | 397.2447 |

## Fallbrook 17, M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3356.63        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</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/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |                    |                    |                 |
| Single Family Housing | 3.35663        | 0.0362        | 0.3093        | 0.1316        | 1.9700e-003        |               | 0.0250        | 0.0250        |                | 0.0250        | 0.0250        |          | 394.8981        | 394.8981        | 7.5700e-003        | 7.2400e-003        | 397.2447        |
| <b>Total</b>          |                | <b>0.0362</b> | <b>0.3093</b> | <b>0.1316</b> | <b>1.9700e-003</b> |               | <b>0.0250</b> | <b>0.0250</b> |                | <b>0.0250</b> | <b>0.0250</b> |          | <b>394.8981</b> | <b>394.8981</b> | <b>7.5700e-003</b> | <b>7.2400e-003</b> | <b>397.2447</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 17, M - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 1.5181 | 0.5787 | 2.9435 | 3.6400e-003 |               | 0.0594       | 0.0594     |                | 0.0594        | 0.0594      | 0.0000   | 703.7258  | 703.7258  | 0.0181 | 0.0128 | 707.9952 |
| Unmitigated | 1.5181 | 0.5787 | 2.9435 | 3.6400e-003 |               | 0.0594       | 0.0594     |                | 0.0594        | 0.0594      | 0.0000   | 703.7258  | 703.7258  | 0.0181 | 0.0128 | 707.9952 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |               |                 |
| Architectural Coating | 0.1018        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 1.2712        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 0.0641        | 0.5474        | 0.2329        | 3.4900e-003        |               | 0.0443        | 0.0443        |                | 0.0443        | 0.0443        | 0.0000        | 698.8235        | 698.8235        | 0.0134        | 0.0128        | 702.9763        |
| Landscaping           | 0.0811        | 0.0313        | 2.7106        | 1.4000e-004        |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |               | 4.9022          | 4.9022          | 4.6700e-003   |               | 5.0189          |
| <b>Total</b>          | <b>1.5181</b> | <b>0.5787</b> | <b>2.9435</b> | <b>3.6300e-003</b> |               | <b>0.0594</b> | <b>0.0594</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>703.7258</b> | <b>703.7258</b> | <b>0.0181</b> | <b>0.0128</b> | <b>707.9952</b> |

Fallbrook 17, M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |               |                 |
| Architectural Coating | 0.1018        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 1.2712        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |               | 0.0000          |
| Hearth                | 0.0641        | 0.5474        | 0.2329        | 3.4900e-003        |               | 0.0443        | 0.0443        |                | 0.0443        | 0.0443        | 0.0000        | 698.8235        | 698.8235        | 0.0134        | 0.0128        | 702.9763        |
| Landscaping           | 0.0811        | 0.0313        | 2.7106        | 1.4000e-004        |               | 0.0151        | 0.0151        |                | 0.0151        | 0.0151        |               | 4.9022          | 4.9022          | 4.6700e-003   |               | 5.0189          |
| <b>Total</b>          | <b>1.5181</b> | <b>0.5787</b> | <b>2.9435</b> | <b>3.6300e-003</b> |               | <b>0.0594</b> | <b>0.0594</b> |                | <b>0.0594</b> | <b>0.0594</b> | <b>0.0000</b> | <b>703.7258</b> | <b>703.7258</b> | <b>0.0181</b> | <b>0.0128</b> | <b>707.9952</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 17, M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 19+, UM - San Diego County, Summer

**Fallbrook 19+, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 1.00 | Dwelling Unit | 0.32        | 1,800.00           | 3          |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Fallbrook 19+, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/6/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/30/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/1/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/31/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/2/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/24/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.9184 | 1,318.9184 | 0.3569 | 0.0000 | 1,326.6680 |
| Maximum | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.9184 | 1,318.9184 | 0.3569 | 0.0000 | 1,326.6680 |

### Mitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.9184 | 1,318.9184 | 0.3569 | 0.0000 | 1,326.6680 |
| Maximum | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.9184 | 1,318.9184 | 0.3569 | 0.0000 | 1,326.6680 |

[illegible]

## Fallbrook 19+, UM - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                 |               |                    |                 |
| Area         | 1.5745        | 0.0308        | 1.9713        | 3.4300e-003        |               | 0.2653        | 0.2653        |                | 0.2653        | 0.2653        | 27.7717        | 11.7956        | 39.5673         | 0.0258        | 2.1800e-003        | 40.8626         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004   | 7.6000e-004   |                | 7.6000e-004   | 7.6000e-004   |                | 11.9666        | 11.9666         | 2.3000e-004   | 2.2000e-004        | 12.0377         |
| Mobile       | 9.8300e-003   | 0.0504        | 0.1347        | 6.8000e-004        | 0.0817        | 2.3000e-004   | 0.0820        | 0.0218         | 2.2000e-004   | 0.0221        |                | 69.6787        | 69.6787         | 3.0600e-003   |                    | 69.7551         |
| <b>Total</b> | <b>1.5854</b> | <b>0.0906</b> | <b>2.1100</b> | <b>4.1700e-003</b> | <b>0.0817</b> | <b>0.2663</b> | <b>0.3481</b> | <b>0.0218</b>  | <b>0.2663</b> | <b>0.2882</b> | <b>27.7717</b> | <b>93.4409</b> | <b>121.2126</b> | <b>0.0291</b> | <b>2.4000e-003</b> | <b>122.6554</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     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                 |               |                    |                 |
| Area         | 1.5745        | 0.0308        | 1.9713        | 3.4300e-003        |               | 0.2653        | 0.2653        |                | 0.2653        | 0.2653        | 27.7717        | 11.7956        | 39.5673         | 0.0258        | 2.1800e-003        | 40.8626         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004   | 7.6000e-004   |                | 7.6000e-004   | 7.6000e-004   |                | 11.9666        | 11.9666         | 2.3000e-004   | 2.2000e-004        | 12.0377         |
| Mobile       | 9.8300e-003   | 0.0504        | 0.1347        | 6.8000e-004        | 0.0817        | 2.3000e-004   | 0.0820        | 0.0218         | 2.2000e-004   | 0.0221        |                | 69.6787        | 69.6787         | 3.0600e-003   |                    | 69.7551         |
| <b>Total</b> | <b>1.5854</b> | <b>0.0906</b> | <b>2.1100</b> | <b>4.1700e-003</b> | <b>0.0817</b> | <b>0.2663</b> | <b>0.3481</b> | <b>0.0218</b>  | <b>0.2663</b> | <b>0.2882</b> | <b>27.7717</b> | <b>93.4409</b> | <b>121.2126</b> | <b>0.0291</b> | <b>2.4000e-003</b> | <b>122.6554</b> |

## Fallbrook 19+, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/31/2018  | 6/6/2018  | 5             | 5        |                   |
| 2            | Building Construction | Building Construction | 1/4/2018   | 5/23/2018 | 5             | 100      |                   |
| 3            | Grading               | Grading               | 1/2/2018   | 1/3/2018  | 5             | 2        |                   |
| 4            | Paving                | Paving                | 5/24/2018  | 5/30/2018 | 5             | 5        |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/1/2018  | 5             | 1        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 19+, UM - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**

## Fallbrook 19+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        |          | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> |          | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        | 0.0000        | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> | <b>0.0000</b> | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        |          | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> |          | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        | 0.0000        | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> | <b>0.0000</b> | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        |          | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> |          | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        | 0.0000        | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> | <b>0.0000</b> | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        |          | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> |          | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0294        | 0.0227        | 0.2516        | 6.9000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 69.1059        | 69.1059        | 2.3000e-003        |     | 69.1634        |
| <b>Total</b> | <b>0.0294</b> | <b>0.0227</b> | <b>0.2516</b> | <b>6.9000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>69.1059</b> | <b>69.1059</b> | <b>2.3000e-003</b> |     | <b>69.1634</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        | 0.0000        | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> | <b>0.0000</b> | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0294        | 0.0227        | 0.2516        | 6.9000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 69.1059        | 69.1059        | 2.3000e-003        |     | 69.1634        |
| <b>Total</b> | <b>0.0294</b> | <b>0.0227</b> | <b>0.2516</b> | <b>6.9000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>69.1059</b> | <b>69.1059</b> | <b>2.3000e-003</b> |     | <b>69.1634</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 19+, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|---------|
| Category    | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |     |         |
| Mitigated   | 9.8300e-003 | 0.0504 | 0.1347 | 6.8000e-004 | 0.0817        | 2.3000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 69.6787   | 69.6787   | 3.0600e-003 |     | 69.7551 |
| Unmitigated | 9.8300e-003 | 0.0504 | 0.1347 | 6.8000e-004 | 0.0817        | 2.3000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 69.6787   | 69.6787   | 3.0600e-003 |     | 69.7551 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |
| Total                 | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 19+, UM - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |
| NaturalGas Unmitigated | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |

## Fallbrook 19+, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 101.716        | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</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/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.101716       | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 19+, UM - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O         | CO2e    |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|---------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |             |         |
| Mitigated   | 1.5745 | 0.0308 | 1.9713 | 3.4300e-003 |               | 0.2653       | 0.2653     |                | 0.2653        | 0.2653      | 27.7717  | 11.7956   | 39.5673   | 0.0258 | 2.1800e-003 | 40.8626 |
| Unmitigated | 1.5745 | 0.0308 | 1.9713 | 3.4300e-003 |               | 0.2653       | 0.2653     |                | 0.2653        | 0.2653      | 27.7717  | 11.7956   | 39.5673   | 0.0258 | 2.1800e-003 | 40.8626 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                |               |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Hearth                | 1.5304        | 0.0299        | 1.8891        | 3.4200e-003        |               | 0.2649        | 0.2649        |                | 0.2649        | 0.2649        | 27.7717        | 11.6471        | 39.4188        | 0.0256        | 2.1800e-003        | 40.7105        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004   | 4.6000e-004   |                | 4.6000e-004   | 4.6000e-004   |                | 0.1486         | 0.1486         | 1.4000e-004   |                    | 0.1521         |
| <b>Total</b>          | <b>1.5745</b> | <b>0.0308</b> | <b>1.9713</b> | <b>3.4200e-003</b> |               | <b>0.2653</b> | <b>0.2653</b> |                | <b>0.2653</b> | <b>0.2653</b> | <b>27.7717</b> | <b>11.7956</b> | <b>39.5673</b> | <b>0.0258</b> | <b>2.1800e-003</b> | <b>40.8626</b> |

## Fallbrook 19+, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                |               |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Hearth                | 1.5304        | 0.0299        | 1.8891        | 3.4200e-003        |               | 0.2649        | 0.2649        |                | 0.2649        | 0.2649        | 27.7717        | 11.6471        | 39.4188        | 0.0256        | 2.1800e-003        | 40.7105        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004   | 4.6000e-004   |                | 4.6000e-004   | 4.6000e-004   |                | 0.1486         | 0.1486         | 1.4000e-004   |                    | 0.1521         |
| <b>Total</b>          | <b>1.5745</b> | <b>0.0308</b> | <b>1.9713</b> | <b>3.4200e-003</b> |               | <b>0.2653</b> | <b>0.2653</b> |                | <b>0.2653</b> | <b>0.2653</b> | <b>27.7717</b> | <b>11.7956</b> | <b>39.5673</b> | <b>0.0258</b> | <b>2.1800e-003</b> | <b>40.8626</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 19+, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 19+, M - San Diego County, Summer

**Fallbrook 19+, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 1.00 | Dwelling Unit | 0.32        | 1,800.00           | 3          |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 19+, M - San Diego County, Summer

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/6/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/3/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/30/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/1/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/31/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/4/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/2/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/24/2018 |
| tblFireplaces             | NumberGas                       | 0.55       | 1.00      |
| tblFireplaces             | NumberNoFireplace               | 0.10       | 0.00      |
| tblFireplaces             | NumberWood                      | 0.35       | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 0.05       | 0.00      |

## Fallbrook 19+, M - San Diego County, Summer

|               |   |                    |   |      |   |      |
|---------------|---|--------------------|---|------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 0.05 | : | 0.00 |
|---------------|---|--------------------|---|------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.918<br>4 | 1,318.918<br>4 | 0.3569 | 0.0000 | 1,326.668<br>0 |
| Maximum | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.918<br>4 | 1,318.918<br>4 | 0.3569 | 0.0000 | 1,326.668<br>0 |

#### Mitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.918<br>4 | 1,318.918<br>4 | 0.3569 | 0.0000 | 1,326.668<br>0 |
| Maximum | 2.5512 | 11.0316 | 8.2795 | 0.0138 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,318.918<br>4 | 1,318.918<br>4 | 0.3569 | 0.0000 | 1,326.668<br>0 |

Fallbrook 19+, M - San Diego County, Summer

[illegible]

## Fallbrook 19+, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day        |                 |                 |                    |                    |                 |
| Area         | 0.0460        | 0.0175        | 0.0892        | 1.1000e-004        |               | 1.8000e-003        | 1.8000e-003   |                | 1.8000e-003        | 1.8000e-003   | 0.0000        | 21.3250         | 21.3250         | 5.5000e-004        | 3.9000e-004        | 21.4544         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                | 7.6000e-004        | 7.6000e-004   |               | 11.9666         | 11.9666         | 2.3000e-004        | 2.2000e-004        | 12.0377         |
| Mobile       | 9.8300e-003   | 0.0504        | 0.1347        | 6.8000e-004        | 0.0817        | 2.3000e-004        | 0.0820        | 0.0218         | 2.2000e-004        | 0.0221        |               | 69.6787         | 69.6787         | 3.0600e-003        |                    | 69.7551         |
| <b>Total</b> | <b>0.0569</b> | <b>0.0773</b> | <b>0.2279</b> | <b>8.5000e-004</b> | <b>0.0817</b> | <b>2.7900e-003</b> | <b>0.0845</b> | <b>0.0218</b>  | <b>2.7800e-003</b> | <b>0.0246</b> | <b>0.0000</b> | <b>102.9703</b> | <b>102.9703</b> | <b>3.8400e-003</b> | <b>6.1000e-004</b> | <b>103.2472</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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day        |                 |                 |                    |                    |                 |
| Area         | 0.0460        | 0.0175        | 0.0892        | 1.1000e-004        |               | 1.8000e-003        | 1.8000e-003   |                | 1.8000e-003        | 1.8000e-003   | 0.0000        | 21.3250         | 21.3250         | 5.5000e-004        | 3.9000e-004        | 21.4544         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                | 7.6000e-004        | 7.6000e-004   |               | 11.9666         | 11.9666         | 2.3000e-004        | 2.2000e-004        | 12.0377         |
| Mobile       | 9.8300e-003   | 0.0504        | 0.1347        | 6.8000e-004        | 0.0817        | 2.3000e-004        | 0.0820        | 0.0218         | 2.2000e-004        | 0.0221        |               | 69.6787         | 69.6787         | 3.0600e-003        |                    | 69.7551         |
| <b>Total</b> | <b>0.0569</b> | <b>0.0773</b> | <b>0.2279</b> | <b>8.5000e-004</b> | <b>0.0817</b> | <b>2.7900e-003</b> | <b>0.0845</b> | <b>0.0218</b>  | <b>2.7800e-003</b> | <b>0.0246</b> | <b>0.0000</b> | <b>102.9703</b> | <b>102.9703</b> | <b>3.8400e-003</b> | <b>6.1000e-004</b> | <b>103.2472</b> |

## Fallbrook 19+, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/31/2018  | 6/6/2018  | 5             | 5        |                   |
| 2            | Building Construction | Building Construction | 1/4/2018   | 5/23/2018 | 5             | 100      |                   |
| 3            | Grading               | Grading               | 1/2/2018   | 1/3/2018  | 5             | 2        |                   |
| 4            | Paving                | Paving                | 5/24/2018  | 5/30/2018 | 5             | 5        |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/1/2018  | 5             | 1        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 19+, M - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**

## Fallbrook 19+, M - San Diego County, Summer

**3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        |          | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> |          | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        | 0.0000        | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> | <b>0.0000</b> | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        |          | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> |          | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 19+, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        | 0.0000        | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> | <b>0.0000</b> | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 19+, M - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        |          | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> |          | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 19+, M - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        | 0.0000        | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> | <b>0.0000</b> | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1060        | 0.0819        | 0.9058        | 2.5000e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 248.7811        | 248.7811        | 8.2800e-003        |     | 248.9882        |
| <b>Total</b> | <b>0.1060</b> | <b>0.0819</b> | <b>0.9058</b> | <b>2.5000e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>248.7811</b> | <b>248.7811</b> | <b>8.2800e-003</b> |     | <b>248.9882</b> |

## Fallbrook 19+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        |          | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> |          | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0294        | 0.0227        | 0.2516        | 6.9000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 69.1059        | 69.1059        | 2.3000e-003        |     | 69.1634        |
| <b>Total</b> | <b>0.0294</b> | <b>0.0227</b> | <b>0.2516</b> | <b>6.9000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>69.1059</b> | <b>69.1059</b> | <b>2.3000e-003</b> |     | <b>69.1634</b> |

## Fallbrook 19+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        | 0.0000        | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> | <b>0.0000</b> | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0294        | 0.0227        | 0.2516        | 6.9000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 69.1059        | 69.1059        | 2.3000e-003        |     | 69.1634        |
| <b>Total</b> | <b>0.0294</b> | <b>0.0227</b> | <b>0.2516</b> | <b>6.9000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>69.1059</b> | <b>69.1059</b> | <b>2.3000e-003</b> |     | <b>69.1634</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 19+, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|---------|
| Category    | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |     |         |
| Mitigated   | 9.8300e-003 | 0.0504 | 0.1347 | 6.8000e-004 | 0.0817        | 2.3000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 69.6787   | 69.6787   | 3.0600e-003 |     | 69.7551 |
| Unmitigated | 9.8300e-003 | 0.0504 | 0.1347 | 6.8000e-004 | 0.0817        | 2.3000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 69.6787   | 69.6787   | 3.0600e-003 |     | 69.7551 |

## 4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |
| Total                 | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |

## 4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 19+, M - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |
| NaturalGas Unmitigated | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |

## Fallbrook 19+, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 101.716        | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</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/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.101716       | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 19+, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------|--------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category    | lb/day |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| Mitigated   | 0.0460 | 0.0175 | 0.0892 | 1.1000e-004 |               | 1.8000e-003  | 1.8000e-003 |                | 1.8000e-003   | 1.8000e-003 | 0.0000   | 21.3250   | 21.3250   | 5.5000e-004 | 3.9000e-004 | 21.4544 |
| Unmitigated | 0.0460 | 0.0175 | 0.0892 | 1.1000e-004 |               | 1.8000e-003  | 1.8000e-003 |                | 1.8000e-003   | 1.8000e-003 | 0.0000   | 21.3250   | 21.3250   | 5.5000e-004 | 3.9000e-004 | 21.4544 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |                    |                    |                |                    |                    | lb/day        |                |                |                    |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Hearth                | 1.9400e-003   | 0.0166        | 7.0600e-003   | 1.1000e-004        |               | 1.3400e-003        | 1.3400e-003        |                | 1.3400e-003        | 1.3400e-003        | 0.0000        | 21.1765        | 21.1765        | 4.1000e-004        | 3.9000e-004        | 21.3023        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004        | 4.6000e-004        |                | 4.6000e-004        | 4.6000e-004        |               | 0.1486         | 0.1486         | 1.4000e-004        |                    | 0.1521         |
| <b>Total</b>          | <b>0.0460</b> | <b>0.0175</b> | <b>0.0892</b> | <b>1.1000e-004</b> |               | <b>1.8000e-003</b> | <b>1.8000e-003</b> |                | <b>1.8000e-003</b> | <b>1.8000e-003</b> | <b>0.0000</b> | <b>21.3250</b> | <b>21.3250</b> | <b>5.5000e-004</b> | <b>3.9000e-004</b> | <b>21.4544</b> |

## Fallbrook 19+, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |                    |                    |                |                    |                    | lb/day        |                |                |                    |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Hearth                | 1.9400e-003   | 0.0166        | 7.0600e-003   | 1.1000e-004        |               | 1.3400e-003        | 1.3400e-003        |                | 1.3400e-003        | 1.3400e-003        | 0.0000        | 21.1765        | 21.1765        | 4.1000e-004        | 3.9000e-004        | 21.3023        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004        | 4.6000e-004        |                | 4.6000e-004        | 4.6000e-004        |               | 0.1486         | 0.1486         | 1.4000e-004        |                    | 0.1521         |
| <b>Total</b>          | <b>0.0460</b> | <b>0.0175</b> | <b>0.0892</b> | <b>1.1000e-004</b> |               | <b>1.8000e-003</b> | <b>1.8000e-003</b> |                | <b>1.8000e-003</b> | <b>1.8000e-003</b> | <b>0.0000</b> | <b>21.3250</b> | <b>21.3250</b> | <b>5.5000e-004</b> | <b>3.9000e-004</b> | <b>21.4544</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 19+, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 19+, UM - San Diego County, Winter

**Fallbrook 19+, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 1.00 | Dwelling Unit | 0.32        | 1,800.00           | 3          |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Fallbrook 19+, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value |
|---------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 6/6/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 5/30/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/1/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/31/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/2/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 5/24/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00     |

## 2.0 Emissions Summary

---

Fallbrook 19+, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |
| Maximum | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |

### Mitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |
| Maximum | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |

[illegible]

## Fallbrook 19+, UM - San Diego County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                 |               |                    |                 |
| Area         | 1.5745        | 0.0308        | 1.9713        | 3.4300e-003        |               | 0.2653        | 0.2653        |                | 0.2653        | 0.2653        | 27.7717        | 11.7956        | 39.5673         | 0.0258        | 2.1800e-003        | 40.8626         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004   | 7.6000e-004   |                | 7.6000e-004   | 7.6000e-004   |                | 11.9666        | 11.9666         | 2.3000e-004   | 2.2000e-004        | 12.0377         |
| Mobile       | 9.6300e-003   | 0.0513        | 0.1300        | 6.4000e-004        | 0.0817        | 2.4000e-004   | 0.0820        | 0.0218         | 2.2000e-004   | 0.0221        |                | 66.4113        | 66.4113         | 3.0600e-003   |                    | 66.4880         |
| <b>Total</b> | <b>1.5852</b> | <b>0.0915</b> | <b>2.1053</b> | <b>4.1300e-003</b> | <b>0.0817</b> | <b>0.2663</b> | <b>0.3481</b> | <b>0.0218</b>  | <b>0.2663</b> | <b>0.2882</b> | <b>27.7717</b> | <b>90.1736</b> | <b>117.9453</b> | <b>0.0291</b> | <b>2.4000e-003</b> | <b>119.3882</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     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                 |               |                    |                 |
| Area         | 1.5745        | 0.0308        | 1.9713        | 3.4300e-003        |               | 0.2653        | 0.2653        |                | 0.2653        | 0.2653        | 27.7717        | 11.7956        | 39.5673         | 0.0258        | 2.1800e-003        | 40.8626         |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004   | 7.6000e-004   |                | 7.6000e-004   | 7.6000e-004   |                | 11.9666        | 11.9666         | 2.3000e-004   | 2.2000e-004        | 12.0377         |
| Mobile       | 9.6300e-003   | 0.0513        | 0.1300        | 6.4000e-004        | 0.0817        | 2.4000e-004   | 0.0820        | 0.0218         | 2.2000e-004   | 0.0221        |                | 66.4113        | 66.4113         | 3.0600e-003   |                    | 66.4880         |
| <b>Total</b> | <b>1.5852</b> | <b>0.0915</b> | <b>2.1053</b> | <b>4.1300e-003</b> | <b>0.0817</b> | <b>0.2663</b> | <b>0.3481</b> | <b>0.0218</b>  | <b>0.2663</b> | <b>0.2882</b> | <b>27.7717</b> | <b>90.1736</b> | <b>117.9453</b> | <b>0.0291</b> | <b>2.4000e-003</b> | <b>119.3882</b> |

## Fallbrook 19+, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/31/2018  | 6/6/2018  | 5             | 5        |                   |
| 2            | Building Construction | Building Construction | 1/4/2018   | 5/23/2018 | 5             | 100      |                   |
| 3            | Grading               | Grading               | 1/2/2018   | 1/3/2018  | 5             | 2        |                   |
| 4            | Paving                | Paving                | 5/24/2018  | 5/30/2018 | 5             | 5        |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/1/2018  | 5             | 1        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 19+, UM - San Diego County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**

## Fallbrook 19+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        |          | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> |          | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        | 0.0000        | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> | <b>0.0000</b> | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        |          | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> |          | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0680        | 0.0511        | 0.4677        | 1.3000e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 129.7001        | 129.7001        | 4.3300e-003        |     | 129.8085        |
| <b>Total</b> | <b>0.0680</b> | <b>0.0511</b> | <b>0.4677</b> | <b>1.3000e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>129.7001</b> | <b>129.7001</b> | <b>4.3300e-003</b> |     | <b>129.8085</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        | 0.0000        | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> | <b>0.0000</b> | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0680        | 0.0511        | 0.4677        | 1.3000e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 129.7001        | 129.7001        | 4.3300e-003        |     | 129.8085        |
| <b>Total</b> | <b>0.0680</b> | <b>0.0511</b> | <b>0.4677</b> | <b>1.3000e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>129.7001</b> | <b>129.7001</b> | <b>4.3300e-003</b> |     | <b>129.8085</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        |          | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> |          | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        | 0.0000        | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> | <b>0.0000</b> | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        |          | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> |          | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0340        | 0.0255        | 0.2338        | 6.5000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 64.8501        | 64.8501        | 2.1700e-003        |     | 64.9042        |
| <b>Total</b> | <b>0.0340</b> | <b>0.0255</b> | <b>0.2338</b> | <b>6.5000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>64.8501</b> | <b>64.8501</b> | <b>2.1700e-003</b> |     | <b>64.9042</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        | 0.0000        | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> | <b>0.0000</b> | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0340        | 0.0255        | 0.2338        | 6.5000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 64.8501        | 64.8501        | 2.1700e-003        |     | 64.9042        |
| <b>Total</b> | <b>0.0340</b> | <b>0.0255</b> | <b>0.2338</b> | <b>6.5000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>64.8501</b> | <b>64.8501</b> | <b>2.1700e-003</b> |     | <b>64.9042</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 19+, UM - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|---------|
| Category    | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |     |         |
| Mitigated   | 9.6300e-003 | 0.0513 | 0.1300 | 6.4000e-004 | 0.0817        | 2.4000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 66.4113   | 66.4113   | 3.0600e-003 |     | 66.4880 |
| Unmitigated | 9.6300e-003 | 0.0513 | 0.1300 | 6.4000e-004 | 0.0817        | 2.4000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 66.4113   | 66.4113   | 3.0600e-003 |     | 66.4880 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |
| Total                 | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 19+, UM - San Diego County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |
| NaturalGas Unmitigated | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |

## Fallbrook 19+, UM - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 101.716        | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</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/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.101716       | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 19+, UM - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O         | CO2e    |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|---------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |             |         |
| Mitigated   | 1.5745 | 0.0308 | 1.9713 | 3.4300e-003 |               | 0.2653       | 0.2653     |                | 0.2653        | 0.2653      | 27.7717  | 11.7956   | 39.5673   | 0.0258 | 2.1800e-003 | 40.8626 |
| Unmitigated | 1.5745 | 0.0308 | 1.9713 | 3.4300e-003 |               | 0.2653       | 0.2653     |                | 0.2653        | 0.2653      | 27.7717  | 11.7956   | 39.5673   | 0.0258 | 2.1800e-003 | 40.8626 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                |               |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Hearth                | 1.5304        | 0.0299        | 1.8891        | 3.4200e-003        |               | 0.2649        | 0.2649        |                | 0.2649        | 0.2649        | 27.7717        | 11.6471        | 39.4188        | 0.0256        | 2.1800e-003        | 40.7105        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004   | 4.6000e-004   |                | 4.6000e-004   | 4.6000e-004   |                | 0.1486         | 0.1486         | 1.4000e-004   |                    | 0.1521         |
| <b>Total</b>          | <b>1.5745</b> | <b>0.0308</b> | <b>1.9713</b> | <b>3.4200e-003</b> |               | <b>0.2653</b> | <b>0.2653</b> |                | <b>0.2653</b> | <b>0.2653</b> | <b>27.7717</b> | <b>11.7956</b> | <b>39.5673</b> | <b>0.0258</b> | <b>2.1800e-003</b> | <b>40.8626</b> |

## Fallbrook 19+, UM - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                |                |               |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                | 0.0000         |               |                    | 0.0000         |
| Hearth                | 1.5304        | 0.0299        | 1.8891        | 3.4200e-003        |               | 0.2649        | 0.2649        |                | 0.2649        | 0.2649        | 27.7717        | 11.6471        | 39.4188        | 0.0256        | 2.1800e-003        | 40.7105        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004   | 4.6000e-004   |                | 4.6000e-004   | 4.6000e-004   |                | 0.1486         | 0.1486         | 1.4000e-004   |                    | 0.1521         |
| <b>Total</b>          | <b>1.5745</b> | <b>0.0308</b> | <b>1.9713</b> | <b>3.4200e-003</b> |               | <b>0.2653</b> | <b>0.2653</b> |                | <b>0.2653</b> | <b>0.2653</b> | <b>27.7717</b> | <b>11.7956</b> | <b>39.5673</b> | <b>0.0258</b> | <b>2.1800e-003</b> | <b>40.8626</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 19+, UM - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 19+, M - San Diego County, Winter

**Fallbrook 19+, M**  
**San Diego County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 1.00 | Dwelling Unit | 0.32        | 1,800.00           | 3          |

### 1.2 Other Project Characteristics

|                          |                          |                          |       |                           |       |
|--------------------------|--------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Rural                    | Wind Speed (m/s)         | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone             | 10                       |                          |       | Operational Year          | 2050  |
| Utility Company          | San Diego Gas & Electric |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 720.49                   | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 19+, M - San Diego County, Winter

|                           |                                 |            |           |
|---------------------------|---------------------------------|------------|-----------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00     |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00     |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50        |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50        |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50        |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50        |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 6/6/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/23/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/3/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 5/30/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/1/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/31/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/4/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/2/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 5/24/2018 |
| tblFireplaces             | NumberGas                       | 0.55       | 1.00      |
| tblFireplaces             | NumberNoFireplace               | 0.10       | 0.00      |
| tblFireplaces             | NumberWood                      | 0.35       | 0.00      |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050      |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural     |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41     |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05      |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00     |
| tblWoodstoves             | NumberCatalytic                 | 0.05       | 0.00      |

## Fallbrook 19+, M - San Diego County, Winter

|               |   |                    |   |      |   |      |
|---------------|---|--------------------|---|------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 0.05 | : | 0.00 |
|---------------|---|--------------------|---|------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |
| Maximum | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |

#### Mitigated Construction

|         | ROG    | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |
| Maximum | 2.5512 | 11.0316 | 8.2439 | 0.0136 | 0.8805        | 0.7087       | 1.5041     | 0.4477         | 0.6520        | 1.0428      | 0.0000   | 1,303.5975 | 1,303.5975 | 0.3569 | 0.0000 | 1,311.3351 |

Fallbrook 19+, M - San Diego County, Winter

[illegible]

## Fallbrook 19+, M - San Diego County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day        |                |                |                    |                    |                |
| Area         | 0.0460        | 0.0175        | 0.0892        | 1.1000e-004        |               | 1.8000e-003        | 1.8000e-003   |                | 1.8000e-003        | 1.8000e-003   | 0.0000        | 21.3250        | 21.3250        | 5.5000e-004        | 3.9000e-004        | 21.4544        |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                | 7.6000e-004        | 7.6000e-004   |               | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| Mobile       | 9.6300e-003   | 0.0513        | 0.1300        | 6.4000e-004        | 0.0817        | 2.4000e-004        | 0.0820        | 0.0218         | 2.2000e-004        | 0.0221        |               | 66.4113        | 66.4113        | 3.0600e-003        |                    | 66.4880        |
| <b>Total</b> | <b>0.0567</b> | <b>0.0782</b> | <b>0.2232</b> | <b>8.1000e-004</b> | <b>0.0817</b> | <b>2.8000e-003</b> | <b>0.0845</b> | <b>0.0218</b>  | <b>2.7800e-003</b> | <b>0.0246</b> | <b>0.0000</b> | <b>99.7030</b> | <b>99.7030</b> | <b>3.8400e-003</b> | <b>6.1000e-004</b> | <b>99.9801</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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day        |                |                |                    |                    |                |
| Area         | 0.0460        | 0.0175        | 0.0892        | 1.1000e-004        |               | 1.8000e-003        | 1.8000e-003   |                | 1.8000e-003        | 1.8000e-003   | 0.0000        | 21.3250        | 21.3250        | 5.5000e-004        | 3.9000e-004        | 21.4544        |
| Energy       | 1.1000e-003   | 9.3700e-003   | 3.9900e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                | 7.6000e-004        | 7.6000e-004   |               | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| Mobile       | 9.6300e-003   | 0.0513        | 0.1300        | 6.4000e-004        | 0.0817        | 2.4000e-004        | 0.0820        | 0.0218         | 2.2000e-004        | 0.0221        |               | 66.4113        | 66.4113        | 3.0600e-003        |                    | 66.4880        |
| <b>Total</b> | <b>0.0567</b> | <b>0.0782</b> | <b>0.2232</b> | <b>8.1000e-004</b> | <b>0.0817</b> | <b>2.8000e-003</b> | <b>0.0845</b> | <b>0.0218</b>  | <b>2.7800e-003</b> | <b>0.0246</b> | <b>0.0000</b> | <b>99.7030</b> | <b>99.7030</b> | <b>3.8400e-003</b> | <b>6.1000e-004</b> | <b>99.9801</b> |

## Fallbrook 19+, M - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 5/31/2018  | 6/6/2018  | 5             | 5        |                   |
| 2            | Building Construction | Building Construction | 1/4/2018   | 5/23/2018 | 5             | 100      |                   |
| 3            | Grading               | Grading               | 1/2/2018   | 1/3/2018  | 5             | 2        |                   |
| 4            | Paving                | Paving                | 5/24/2018  | 5/30/2018 | 5             | 5        |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/1/2018  | 5             | 1        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 19+, M - San Diego County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**

## Fallbrook 19+, M - San Diego County, Winter

**3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Winter

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 2.2526        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>2.5512</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        |          | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> |          | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Unmitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.0848        | 11.0316        | 7.7512        | 0.0114        |               | 0.7087        | 0.7087        |                | 0.6520        | 0.6520        | 0.0000        | 1,146.5323        | 1,146.5323        | 0.3569        |     | 1,155.4555        |
| <b>Total</b> | <b>1.0848</b> | <b>11.0316</b> | <b>7.7512</b> | <b>0.0114</b> |               | <b>0.7087</b> | <b>0.7087</b> |                | <b>0.6520</b> | <b>0.6520</b> | <b>0.0000</b> | <b>1,146.5323</b> | <b>1,146.5323</b> | <b>0.3569</b> |     | <b>1,155.4555</b> |

**Mitigated Construction Off-Site**

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

## Fallbrook 19+, M - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        |          | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> |          | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0680        | 0.0511        | 0.4677        | 1.3000e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 129.7001        | 129.7001        | 4.3300e-003        |     | 129.8085        |
| <b>Total</b> | <b>0.0680</b> | <b>0.0511</b> | <b>0.4677</b> | <b>1.3000e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>129.7001</b> | <b>129.7001</b> | <b>4.3300e-003</b> |     | <b>129.8085</b> |

## Fallbrook 19+, M - San Diego County, Winter

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.0643        | 9.4295        | 7.7762        | 0.0120        |               | 0.6228        | 0.6228        |                | 0.5943        | 0.5943        | 0.0000        | 1,169.350<br>2         | 1,169.350<br>2         | 0.2254        |     | 1,174.985<br>7         |
| <b>Total</b>  | <b>1.0643</b> | <b>9.4295</b> | <b>7.7762</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.6228</b> | <b>1.3755</b> | <b>0.4138</b>  | <b>0.5943</b> | <b>1.0081</b> | <b>0.0000</b> | <b>1,169.350<br/>2</b> | <b>1,169.350<br/>2</b> | <b>0.2254</b> |     | <b>1,174.985<br/>7</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0680        | 0.0511        | 0.4677        | 1.3000e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 129.7001        | 129.7001        | 4.3300e-003        |     | 129.8085        |
| <b>Total</b> | <b>0.0680</b> | <b>0.0511</b> | <b>0.4677</b> | <b>1.3000e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>129.7001</b> | <b>129.7001</b> | <b>4.3300e-003</b> |     | <b>129.8085</b> |

## Fallbrook 19+, M - San Diego County, Winter

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        |          | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> |          | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 19+, M - San Diego County, Winter

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9202        | 8.7447        | 7.2240        | 0.0113        |               | 0.5109        | 0.5109        |                | 0.4735        | 0.4735        | 0.0000        | 1,070.137<br>2         | 1,070.137<br>2         | 0.3017        |     | 1,077.679<br>8         |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9202</b> | <b>8.7447</b> | <b>7.2240</b> | <b>0.0113</b> |               | <b>0.5109</b> | <b>0.5109</b> |                | <b>0.4735</b> | <b>0.4735</b> | <b>0.0000</b> | <b>1,070.137<br/>2</b> | <b>1,070.137<br/>2</b> | <b>0.3017</b> |     | <b>1,077.679<br/>8</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1225        | 0.0919        | 0.8418        | 2.3400e-003        | 0.2299        | 1.5900e-003        | 0.2315        | 0.0610         | 1.4700e-003        | 0.0624        |          | 233.4603        | 233.4603        | 7.8000e-003        |     | 233.6553        |
| <b>Total</b> | <b>0.1225</b> | <b>0.0919</b> | <b>0.8418</b> | <b>2.3400e-003</b> | <b>0.2299</b> | <b>1.5900e-003</b> | <b>0.2315</b> | <b>0.0610</b>  | <b>1.4700e-003</b> | <b>0.0624</b> |          | <b>233.4603</b> | <b>233.4603</b> | <b>7.8000e-003</b> |     | <b>233.6553</b> |

## Fallbrook 19+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        |          | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> |          | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0340        | 0.0255        | 0.2338        | 6.5000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 64.8501        | 64.8501        | 2.1700e-003        |     | 64.9042        |
| <b>Total</b> | <b>0.0340</b> | <b>0.0255</b> | <b>0.2338</b> | <b>6.5000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>64.8501</b> | <b>64.8501</b> | <b>2.1700e-003</b> |     | <b>64.9042</b> |

## Fallbrook 19+, M - San Diego County, Winter

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.7858        | 9.7572        | 4.2514        | 9.7600e-003        |               | 0.4180        | 0.4180        |                | 0.3846        | 0.3846        | 0.0000        | 982.7113        | 982.7113        | 0.3059        |     | 990.3596        |
| <b>Total</b>  | <b>0.7858</b> | <b>9.7572</b> | <b>4.2514</b> | <b>9.7600e-003</b> | <b>0.5303</b> | <b>0.4180</b> | <b>0.9483</b> | <b>0.0573</b>  | <b>0.3846</b> | <b>0.4418</b> | <b>0.0000</b> | <b>982.7113</b> | <b>982.7113</b> | <b>0.3059</b> |     | <b>990.3596</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0340        | 0.0255        | 0.2338        | 6.5000e-004        | 0.0639        | 4.4000e-004        | 0.0643        | 0.0169         | 4.1000e-004        | 0.0173        |          | 64.8501        | 64.8501        | 2.1700e-003        |     | 64.9042        |
| <b>Total</b> | <b>0.0340</b> | <b>0.0255</b> | <b>0.2338</b> | <b>6.5000e-004</b> | <b>0.0639</b> | <b>4.4000e-004</b> | <b>0.0643</b> | <b>0.0169</b>  | <b>4.1000e-004</b> | <b>0.0173</b> |          | <b>64.8501</b> | <b>64.8501</b> | <b>2.1700e-003</b> |     | <b>64.9042</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 19+, M - San Diego County, Winter

## 4.1 Mitigation Measures Mobile

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|---------|
| Category    | lb/day      |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |     |         |
| Mitigated   | 9.6300e-003 | 0.0513 | 0.1300 | 6.4000e-004 | 0.0817        | 2.4000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 66.4113   | 66.4113   | 3.0600e-003 |     | 66.4880 |
| Unmitigated | 9.6300e-003 | 0.0513 | 0.1300 | 6.4000e-004 | 0.0817        | 2.4000e-004  | 0.0820     | 0.0218         | 2.2000e-004   | 0.0221      |          | 66.4113   | 66.4113   | 3.0600e-003 |     | 66.4880 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |
| Total                 | 10.00                   | 10.41    | 9.05   | 36,721      | 36,721     |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

Fallbrook 19+, M - San Diego County, Winter

## 5.0 Energy Detail

---

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

---

|                        | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |
| NaturalGas Unmitigated | 1.1000e-003 | 9.3700e-003 | 3.9900e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 |          | 11.9666   | 11.9666   | 2.3000e-004 | 2.2000e-004 | 12.0377 |

## Fallbrook 19+, M - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 101.716        | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</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/yr        | lb/day             |                    |                    |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.101716       | 1.1000e-003        | 9.3700e-003        | 3.9900e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        |          | 11.9666        | 11.9666        | 2.3000e-004        | 2.2000e-004        | 12.0377        |
| <b>Total</b>          |                | <b>1.1000e-003</b> | <b>9.3700e-003</b> | <b>3.9900e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> |          | <b>11.9666</b> | <b>11.9666</b> | <b>2.3000e-004</b> | <b>2.2000e-004</b> | <b>12.0377</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 19+, M - San Diego County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------|--------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category    | lb/day |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| Mitigated   | 0.0460 | 0.0175 | 0.0892 | 1.1000e-004 |               | 1.8000e-003  | 1.8000e-003 |                | 1.8000e-003   | 1.8000e-003 | 0.0000   | 21.3250   | 21.3250   | 5.5000e-004 | 3.9000e-004 | 21.4544 |
| Unmitigated | 0.0460 | 0.0175 | 0.0892 | 1.1000e-004 |               | 1.8000e-003  | 1.8000e-003 |                | 1.8000e-003   | 1.8000e-003 | 0.0000   | 21.3250   | 21.3250   | 5.5000e-004 | 3.9000e-004 | 21.4544 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |                    |                    |                |                    |                    | lb/day        |                |                |                    |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Hearth                | 1.9400e-003   | 0.0166        | 7.0600e-003   | 1.1000e-004        |               | 1.3400e-003        | 1.3400e-003        |                | 1.3400e-003        | 1.3400e-003        | 0.0000        | 21.1765        | 21.1765        | 4.1000e-004        | 3.9000e-004        | 21.3023        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004        | 4.6000e-004        |                | 4.6000e-004        | 4.6000e-004        |               | 0.1486         | 0.1486         | 1.4000e-004        |                    | 0.1521         |
| <b>Total</b>          | <b>0.0460</b> | <b>0.0175</b> | <b>0.0892</b> | <b>1.1000e-004</b> |               | <b>1.8000e-003</b> | <b>1.8000e-003</b> |                | <b>1.8000e-003</b> | <b>1.8000e-003</b> | <b>0.0000</b> | <b>21.3250</b> | <b>21.3250</b> | <b>5.5000e-004</b> | <b>3.9000e-004</b> | <b>21.4544</b> |

Fallbrook 19+, M - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | lb/day        |               |               |                    |               |                    |                    |                |                    |                    | lb/day        |                |                |                    |                    |                |
| Architectural Coating | 3.0900e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Consumer Products     | 0.0385        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |               |                | 0.0000         |                    |                    | 0.0000         |
| Hearth                | 1.9400e-003   | 0.0166        | 7.0600e-003   | 1.1000e-004        |               | 1.3400e-003        | 1.3400e-003        |                | 1.3400e-003        | 1.3400e-003        | 0.0000        | 21.1765        | 21.1765        | 4.1000e-004        | 3.9000e-004        | 21.3023        |
| Landscaping           | 2.4600e-003   | 9.5000e-004   | 0.0821        | 0.0000             |               | 4.6000e-004        | 4.6000e-004        |                | 4.6000e-004        | 4.6000e-004        |               | 0.1486         | 0.1486         | 1.4000e-004        |                    | 0.1521         |
| <b>Total</b>          | <b>0.0460</b> | <b>0.0175</b> | <b>0.0892</b> | <b>1.1000e-004</b> |               | <b>1.8000e-003</b> | <b>1.8000e-003</b> |                | <b>1.8000e-003</b> | <b>1.8000e-003</b> | <b>0.0000</b> | <b>21.3250</b> | <b>21.3250</b> | <b>5.5000e-004</b> | <b>3.9000e-004</b> | <b>21.4544</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 19+, M - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 21+, UM - San Diego County, Summer

**Fallbrook 21+, UM**  
**San Diego County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Fallbrook 21+, UM - San Diego County, Summer

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/16/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

---

Fallbrook 21+, UM - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |
| Maximum | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |
| Maximum | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |

[illegible]

## Fallbrook 21+, UM - San Diego County, Summer

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0688         | 0.3524        | 0.9431         | 4.7400e-003   | 0.5721        | 1.6400e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |                 | 487.7506        | 487.7506        | 0.0214        |               | 488.2856        |
| <b>Total</b> | <b>11.0977</b> | <b>0.6339</b> | <b>14.7697</b> | <b>0.0292</b> | <b>0.5721</b> | <b>1.8643</b> | <b>2.4364</b> | <b>0.1529</b>  | <b>1.8641</b> | <b>2.0171</b> | <b>194.4021</b> | <b>654.0861</b> | <b>848.4883</b> | <b>0.2034</b> | <b>0.0168</b> | <b>858.5876</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0688         | 0.3524        | 0.9431         | 4.7400e-003   | 0.5721        | 1.6400e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |                 | 487.7506        | 487.7506        | 0.0214        |               | 488.2856        |
| <b>Total</b> | <b>11.0977</b> | <b>0.6339</b> | <b>14.7697</b> | <b>0.0292</b> | <b>0.5721</b> | <b>1.8643</b> | <b>2.4364</b> | <b>0.1529</b>  | <b>1.8641</b> | <b>2.0171</b> | <b>194.4021</b> | <b>654.0861</b> | <b>848.4883</b> | <b>0.2034</b> | <b>0.0168</b> | <b>858.5876</b> |

## Fallbrook 21+, UM - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 21+, UM - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Fallbrook 21+, UM - San Diego County, Summer

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.8900e-003        | 4.5500e-003        | 0.0503        | 1.4000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.8212        | 13.8212        | 4.6000e-004        |     | 13.8327        |
| <b>Total</b> | <b>5.8900e-003</b> | <b>4.5500e-003</b> | <b>0.0503</b> | <b>1.4000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.8212</b> | <b>13.8212</b> | <b>4.6000e-004</b> |     | <b>13.8327</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.8900e-003        | 4.5500e-003        | 0.0503        | 1.4000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.8212        | 13.8212        | 4.6000e-004        |     | 13.8327        |
| <b>Total</b> | <b>5.8900e-003</b> | <b>4.5500e-003</b> | <b>0.0503</b> | <b>1.4000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.8212</b> | <b>13.8212</b> | <b>4.6000e-004</b> |     | <b>13.8327</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 4.8300e-003   | 0.1254        | 0.0332        | 2.6000e-004        | 6.1200e-003   | 9.4000e-004        | 7.0600e-003   | 1.7600e-003    | 9.0000e-004        | 2.6600e-003   |          | 27.5451        | 27.5451        | 2.2500e-003        |     | 27.6015        |
| Worker       | 0.0177        | 0.0136        | 0.1510        | 4.2000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 41.4635        | 41.4635        | 1.3800e-003        |     | 41.4980        |
| <b>Total</b> | <b>0.0225</b> | <b>0.1391</b> | <b>0.1842</b> | <b>6.8000e-004</b> | <b>0.0444</b> | <b>1.2100e-003</b> | <b>0.0456</b> | <b>0.0119</b>  | <b>1.1400e-003</b> | <b>0.0131</b> |          | <b>69.0086</b> | <b>69.0086</b> | <b>3.6300e-003</b> |     | <b>69.0995</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 4.8300e-003   | 0.1254        | 0.0332        | 2.6000e-004        | 6.1200e-003   | 9.4000e-004        | 7.0600e-003   | 1.7600e-003    | 9.0000e-004        | 2.6600e-003   |          | 27.5451        | 27.5451        | 2.2500e-003        |     | 27.6015        |
| Worker       | 0.0177        | 0.0136        | 0.1510        | 4.2000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 41.4635        | 41.4635        | 1.3800e-003        |     | 41.4980        |
| <b>Total</b> | <b>0.0225</b> | <b>0.1391</b> | <b>0.1842</b> | <b>6.8000e-004</b> | <b>0.0444</b> | <b>1.2100e-003</b> | <b>0.0456</b> | <b>0.0119</b>  | <b>1.1400e-003</b> | <b>0.0131</b> |          | <b>69.0086</b> | <b>69.0086</b> | <b>3.6300e-003</b> |     | <b>69.0995</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0471        | 0.0364        | 0.4026        | 1.1100e-003        | 0.1022        | 7.1000e-004        | 0.1029        | 0.0271         | 6.5000e-004        | 0.0278        |          | 110.5694        | 110.5694        | 3.6800e-003        |     | 110.6614        |
| <b>Total</b> | <b>0.0471</b> | <b>0.0364</b> | <b>0.4026</b> | <b>1.1100e-003</b> | <b>0.1022</b> | <b>7.1000e-004</b> | <b>0.1029</b> | <b>0.0271</b>  | <b>6.5000e-004</b> | <b>0.0278</b> |          | <b>110.5694</b> | <b>110.5694</b> | <b>3.6800e-003</b> |     | <b>110.6614</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0471        | 0.0364        | 0.4026        | 1.1100e-003        | 0.1022        | 7.1000e-004        | 0.1029        | 0.0271         | 6.5000e-004        | 0.0278        |          | 110.5694        | 110.5694        | 3.6800e-003        |     | 110.6614        |
| <b>Total</b> | <b>0.0471</b> | <b>0.0364</b> | <b>0.4026</b> | <b>1.1100e-003</b> | <b>0.1022</b> | <b>7.1000e-004</b> | <b>0.1029</b> | <b>0.0271</b>  | <b>6.5000e-004</b> | <b>0.0278</b> |          | <b>110.5694</b> | <b>110.5694</b> | <b>3.6800e-003</b> |     | <b>110.6614</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 21+, UM - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0688 | 0.3524 | 0.9431 | 4.7400e-003 | 0.5721        | 1.6400e-003  | 0.5738     | 0.1529         | 1.5300e-003   | 0.1544      |          | 487.7506  | 487.7506  | 0.0214 |     | 488.2856 |
| Unmitigated | 0.0688 | 0.3524 | 0.9431 | 4.7400e-003 | 0.5721        | 1.6400e-003  | 0.5738     | 0.1529         | 1.5300e-003   | 0.1544      |          | 487.7506  | 487.7506  | 0.0214 |     | 488.2856 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 257,048     | 257,048    |
| Total                 | 70.00                   | 72.87    | 63.35  | 257,048     | 257,048    |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 21+, UM - San Diego County, Summer

**5.0 Energy Detail**

---

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

---

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Fallbrook 21+, UM - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 21+, UM - San Diego County, Summer

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| Mitigated   | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |
| Unmitigated | 11.0212 | 0.2158 | 13.7987 | 0.0240 |               | 1.8573       | 1.8573     |                | 1.8573        | 1.8573      | 194.4021 | 82.5693   | 276.9714  | 0.1804 | 0.0153 | 286.0379 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

## Fallbrook 21+, UM - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2      | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                |                 |               |               |                 |
| Architectural Coating | 0.0216         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Consumer Products     | 0.2696         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                 |                | 0.0000          |               |               | 0.0000          |
| Hearth                | 10.7128        | 0.2092        | 13.2237        | 0.0240        |               | 1.8541        | 1.8541        |                | 1.8541        | 1.8541        | 194.4021        | 81.5294        | 275.9315        | 0.1794        | 0.0153        | 284.9733        |
| Landscaping           | 0.0172         | 6.6400e-003   | 0.5750         | 3.0000e-005   |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |                 | 1.0399         | 1.0399          | 9.9000e-004   |               | 1.0646          |
| <b>Total</b>          | <b>11.0212</b> | <b>0.2159</b> | <b>13.7987</b> | <b>0.0240</b> |               | <b>1.8573</b> | <b>1.8573</b> |                | <b>1.8573</b> | <b>1.8573</b> | <b>194.4021</b> | <b>82.5693</b> | <b>276.9714</b> | <b>0.1804</b> | <b>0.0153</b> | <b>286.0379</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 21+, UM - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 21+, M - San Diego County, Summer

**Fallbrook 21+, M**  
**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Woodstoves - Mitigation of 100% NG

| Table Name              | Column Name                | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00        | 50.00     |

## Fallbrook 21+, M - San Diego County, Summer

|                           |                                 |            |            |
|---------------------------|---------------------------------|------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00     | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00     | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250        | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250        | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250        | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250        | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017 | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018   | 11/16/2018 |
| tblFireplaces             | NumberGas                       | 3.85       | 7.00       |
| tblFireplaces             | NumberNoFireplace               | 0.70       | 0.00       |
| tblFireplaces             | NumberWood                      | 2.45       | 0.00       |
| tblProjectCharacteristics | OperationalYear                 | 2018       | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban      | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91       | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62       | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52       | 10.00      |
| tblWoodstoves             | NumberCatalytic                 | 0.35       | 0.00       |

## Fallbrook 21+, M - San Diego County, Summer

|               |   |                    |   |      |   |      |
|---------------|---|--------------------|---|------|---|------|
| tblWoodstoves | : | NumberNoncatalytic | : | 0.35 | : | 0.00 |
|---------------|---|--------------------|---|------|---|------|

## 2.0 Emissions Summary

---

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |
| Maximum | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |

#### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2018    | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |
| Maximum | 8.1887 | 24.3350 | 15.9025 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2062        | 4.4770      | 0.0000   | 2,578.9825 | 2,578.9825 | 0.7721 | 0.0000 | 2,598.2858 |

Fallbrook 21+, M - San Diego County, Summer

[illegible]

## Fallbrook 21+, M - San Diego County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0688        | 0.3524        | 0.9431        | 4.7400e-003        | 0.5721        | 1.6400e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |               | 487.7506        | 487.7506        | 0.0214        |                    | 488.2856        |
| <b>Total</b> | <b>0.3985</b> | <b>0.5408</b> | <b>1.5954</b> | <b>5.9300e-003</b> | <b>0.5721</b> | <b>0.0195</b> | <b>0.5917</b> | <b>0.1529</b>  | <b>0.0194</b> | <b>0.1723</b> | <b>0.0000</b> | <b>720.7920</b> | <b>720.7920</b> | <b>0.0268</b> | <b>4.2600e-003</b> | <b>722.7304</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     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |                    |                 |
| Area         | 0.3220        | 0.1228        | 0.6244        | 7.7000e-004        |               | 0.0126        | 0.0126        |                | 0.0126        | 0.0126        | 0.0000        | 149.2752        | 149.2752        | 3.8300e-003   | 2.7200e-003        | 150.1808        |
| Energy       | 7.6800e-003   | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |               | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003        | 84.2640         |
| Mobile       | 0.0688        | 0.3524        | 0.9431        | 4.7400e-003        | 0.5721        | 1.6400e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |               | 487.7506        | 487.7506        | 0.0214        |                    | 488.2856        |
| <b>Total</b> | <b>0.3985</b> | <b>0.5408</b> | <b>1.5954</b> | <b>5.9300e-003</b> | <b>0.5721</b> | <b>0.0195</b> | <b>0.5917</b> | <b>0.1529</b>  | <b>0.0194</b> | <b>0.1723</b> | <b>0.0000</b> | <b>720.7920</b> | <b>720.7920</b> | <b>0.0268</b> | <b>4.2600e-003</b> | <b>722.7304</b> |

## Fallbrook 21+, M - San Diego County, Summer

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 21+, M - San Diego County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Fallbrook 21+, M - San Diego County, Summer

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.8900e-003        | 4.5500e-003        | 0.0503        | 1.4000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.8212        | 13.8212        | 4.6000e-004        |     | 13.8327        |
| <b>Total</b> | <b>5.8900e-003</b> | <b>4.5500e-003</b> | <b>0.0503</b> | <b>1.4000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.8212</b> | <b>13.8212</b> | <b>4.6000e-004</b> |     | <b>13.8327</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 5.8900e-003        | 4.5500e-003        | 0.0503        | 1.4000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 13.8212        | 13.8212        | 4.6000e-004        |     | 13.8327        |
| <b>Total</b> | <b>5.8900e-003</b> | <b>4.5500e-003</b> | <b>0.0503</b> | <b>1.4000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>13.8212</b> | <b>13.8212</b> | <b>4.6000e-004</b> |     | <b>13.8327</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 4.8300e-003   | 0.1254        | 0.0332        | 2.6000e-004        | 6.1200e-003   | 9.4000e-004        | 7.0600e-003   | 1.7600e-003    | 9.0000e-004        | 2.6600e-003   |          | 27.5451        | 27.5451        | 2.2500e-003        |     | 27.6015        |
| Worker       | 0.0177        | 0.0136        | 0.1510        | 4.2000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 41.4635        | 41.4635        | 1.3800e-003        |     | 41.4980        |
| <b>Total</b> | <b>0.0225</b> | <b>0.1391</b> | <b>0.1842</b> | <b>6.8000e-004</b> | <b>0.0444</b> | <b>1.2100e-003</b> | <b>0.0456</b> | <b>0.0119</b>  | <b>1.1400e-003</b> | <b>0.0131</b> |          | <b>69.0086</b> | <b>69.0086</b> | <b>3.6300e-003</b> |     | <b>69.0995</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 4.8300e-003   | 0.1254        | 0.0332        | 2.6000e-004        | 6.1200e-003   | 9.4000e-004        | 7.0600e-003   | 1.7600e-003    | 9.0000e-004        | 2.6600e-003   |          | 27.5451        | 27.5451        | 2.2500e-003        |     | 27.6015        |
| Worker       | 0.0177        | 0.0136        | 0.1510        | 4.2000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 41.4635        | 41.4635        | 1.3800e-003        |     | 41.4980        |
| <b>Total</b> | <b>0.0225</b> | <b>0.1391</b> | <b>0.1842</b> | <b>6.8000e-004</b> | <b>0.0444</b> | <b>1.2100e-003</b> | <b>0.0456</b> | <b>0.0119</b>  | <b>1.1400e-003</b> | <b>0.0131</b> |          | <b>69.0086</b> | <b>69.0086</b> | <b>3.6300e-003</b> |     | <b>69.0995</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.4 Grading - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        | 0.0000        | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> | <b>0.0000</b> | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0589        | 0.0455        | 0.5032        | 1.3900e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 138.2117        | 138.2117        | 4.6000e-003        |     | 138.3268        |
| <b>Total</b> | <b>0.0589</b> | <b>0.0455</b> | <b>0.5032</b> | <b>1.3900e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>138.2117</b> | <b>138.2117</b> | <b>4.6000e-003</b> |     | <b>138.3268</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.5 Paving - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        |          | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> |          | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.5 Paving - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4046        | 14.2518        | 11.9787        | 0.0178        |               | 0.8505        | 0.8505        |                | 0.7836        | 0.7836        | 0.0000        | 1,774.2430        | 1,774.2430        | 0.5419        |     | 1,787.7896        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.4046</b> | <b>14.2518</b> | <b>11.9787</b> | <b>0.0178</b> |               | <b>0.8505</b> | <b>0.8505</b> |                | <b>0.7836</b> | <b>0.7836</b> | <b>0.0000</b> | <b>1,774.2430</b> | <b>1,774.2430</b> | <b>0.5419</b> |     | <b>1,787.7896</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0682        | 0.7549        | 2.0800e-003        | 0.1916        | 1.3300e-003        | 0.1929        | 0.0508         | 1.2200e-003        | 0.0520        |          | 207.3176        | 207.3176        | 6.9000e-003        |     | 207.4902        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0682</b> | <b>0.7549</b> | <b>2.0800e-003</b> | <b>0.1916</b> | <b>1.3300e-003</b> | <b>0.1929</b> | <b>0.0508</b>  | <b>1.2200e-003</b> | <b>0.0520</b> |          | <b>207.3176</b> | <b>207.3176</b> | <b>6.9000e-003</b> |     | <b>207.4902</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        |          | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> |          | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0471        | 0.0364        | 0.4026        | 1.1100e-003        | 0.1022        | 7.1000e-004        | 0.1029        | 0.0271         | 6.5000e-004        | 0.0278        |          | 110.5694        | 110.5694        | 3.6800e-003        |     | 110.6614        |
| <b>Total</b> | <b>0.0471</b> | <b>0.0364</b> | <b>0.4026</b> | <b>1.1100e-003</b> | <b>0.1022</b> | <b>7.1000e-004</b> | <b>0.1029</b> | <b>0.0271</b>  | <b>6.5000e-004</b> | <b>0.0278</b> |          | <b>110.5694</b> | <b>110.5694</b> | <b>3.6800e-003</b> |     | <b>110.6614</b> |

## Fallbrook 21+, M - San Diego County, Summer

**3.6 Site Preparation - 2018****Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 1.5908        | 0.0000        | 1.5908        | 0.1718         | 0.0000        | 0.1718        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 1.8995        | 23.6201        | 12.7461        | 0.0245        |               | 0.9540        | 0.9540        |                | 0.8777        | 0.8777        | 0.0000        | 2,468.413<br>1         | 2,468.413<br>1         | 0.7685        |     | 2,487.624<br>4         |
| <b>Total</b>  | <b>1.8995</b> | <b>23.6201</b> | <b>12.7461</b> | <b>0.0245</b> | <b>1.5908</b> | <b>0.9540</b> | <b>2.5448</b> | <b>0.1718</b>  | <b>0.8777</b> | <b>1.0494</b> | <b>0.0000</b> | <b>2,468.413<br/>1</b> | <b>2,468.413<br/>1</b> | <b>0.7685</b> |     | <b>2,487.624<br/>4</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0471        | 0.0364        | 0.4026        | 1.1100e-003        | 0.1022        | 7.1000e-004        | 0.1029        | 0.0271         | 6.5000e-004        | 0.0278        |          | 110.5694        | 110.5694        | 3.6800e-003        |     | 110.6614        |
| <b>Total</b> | <b>0.0471</b> | <b>0.0364</b> | <b>0.4026</b> | <b>1.1100e-003</b> | <b>0.1022</b> | <b>7.1000e-004</b> | <b>0.1029</b> | <b>0.0271</b>  | <b>6.5000e-004</b> | <b>0.0278</b> |          | <b>110.5694</b> | <b>110.5694</b> | <b>3.6800e-003</b> |     | <b>110.6614</b> |

**4.0 Operational Detail - Mobile**

## Fallbrook 21+, M - San Diego County, Summer

## 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0688 | 0.3524 | 0.9431 | 4.7400e-003 | 0.5721        | 1.6400e-003  | 0.5738     | 0.1529         | 1.5300e-003   | 0.1544      |          | 487.7506  | 487.7506  | 0.0214 |     | 488.2856 |
| Unmitigated | 0.0688 | 0.3524 | 0.9431 | 4.7400e-003 | 0.5721        | 1.6400e-003  | 0.5738     | 0.1529         | 1.5300e-003   | 0.1544      |          | 487.7506  | 487.7506  | 0.0214 |     | 488.2856 |

## 4.2 Trip Summary Information

|                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| Land Use              | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Single Family Housing | 70.00                   | 72.87    | 63.35  | 257,048     | 257,048    |
| Total                 | 70.00                   | 72.87    | 63.35  | 257,048     | 257,048    |

## 4.3 Trip Type Information

|                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use              | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 16.80      | 7.10       | 7.90        | 41.60      | 18.80      | 39.60       | 86             | 11       | 3       |

## 4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.615011 | 0.035959 | 0.175734 | 0.096057 | 0.010793 | 0.005300 | 0.020678 | 0.029891 | 0.002015 | 0.001593 | 0.005502 | 0.000799 | 0.000668 |

## Fallbrook 21+, M - San Diego County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |
| NaturalGas Unmitigated | 7.6800e-003 | 0.0656 | 0.0279 | 4.2000e-004 |               | 5.3100e-003  | 5.3100e-003 |                | 5.3100e-003   | 5.3100e-003 |          | 83.7663   | 83.7663   | 1.6100e-003 | 1.5400e-003 | 84.2640 |

## Fallbrook 21+, M - San Diego County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                       | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use              | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 712.013        | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</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/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Single Family Housing | 0.712013       | 7.6800e-003        | 0.0656        | 0.0279        | 4.2000e-004        |               | 5.3100e-003        | 5.3100e-003        |                | 5.3100e-003        | 5.3100e-003        |          | 83.7663        | 83.7663        | 1.6100e-003        | 1.5400e-003        | 84.2640        |
| <b>Total</b>          |                | <b>7.6800e-003</b> | <b>0.0656</b> | <b>0.0279</b> | <b>4.2000e-004</b> |               | <b>5.3100e-003</b> | <b>5.3100e-003</b> |                | <b>5.3100e-003</b> | <b>5.3100e-003</b> |          | <b>83.7663</b> | <b>83.7663</b> | <b>1.6100e-003</b> | <b>1.5400e-003</b> | <b>84.2640</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Fallbrook 21+, M - San Diego County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Mitigated   | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |
| Unmitigated | 0.3220 | 0.1228 | 0.6244 | 7.7000e-004 |               | 0.0126       | 0.0126     |                | 0.0126        | 0.0126      | 0.0000   | 149.2752  | 149.2752  | 3.8300e-003 | 2.7200e-003 | 150.1808 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

## Fallbrook 21+, M - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |                    |                    |                 |
| Architectural Coating | 0.0216        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Consumer Products     | 0.2696        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |                    |                    | 0.0000          |
| Hearth                | 0.0136        | 0.1161        | 0.0494        | 7.4000e-004        |               | 9.3900e-003   | 9.3900e-003   |                | 9.3900e-003   | 9.3900e-003   | 0.0000        | 148.2353        | 148.2353        | 2.8400e-003        | 2.7200e-003        | 149.1162        |
| Landscaping           | 0.0172        | 6.6400e-003   | 0.5750        | 3.0000e-005        |               | 3.2000e-003   | 3.2000e-003   |                | 3.2000e-003   | 3.2000e-003   |               | 1.0399          | 1.0399          | 9.9000e-004        |                    | 1.0646          |
| <b>Total</b>          | <b>0.3220</b> | <b>0.1228</b> | <b>0.6244</b> | <b>7.7000e-004</b> |               | <b>0.0126</b> | <b>0.0126</b> |                | <b>0.0126</b> | <b>0.0126</b> | <b>0.0000</b> | <b>149.2752</b> | <b>149.2752</b> | <b>3.8300e-003</b> | <b>2.7200e-003</b> | <b>150.1808</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fallbrook 21+, M - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fallbrook 21+, UM - San Diego County, Winter

**Fallbrook 21+, UM**  
**San Diego County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses             | Size | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|------|---------------|-------------|--------------------|------------|
| Single Family Housing | 7.00 | Dwelling Unit | 2.27        | 12,600.00          | 20         |

### 1.2 Other Project Characteristics

|                         |                          |                         |       |                           |       |
|-------------------------|--------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Rural                    | Wind Speed (m/s)        | 2.6   | Precipitation Freq (Days) | 40    |
| Climate Zone            | 10                       |                         |       | Operational Year          | 2050  |
| Utility Company         | San Diego Gas & Electric |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 720.49                   | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use -

Construction Phase -

Architectural Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

Vehicle Trips - Using SANDAG Weekday rate

Area Coating - Effective 1/1/2016, SDAPCD Rule 67.0.1 (Architectural Coating)

## Fallbrook 21+, UM - San Diego County, Winter

| Table Name                | Column Name                     | Default Value | New Value  |
|---------------------------|---------------------------------|---------------|------------|
| tblArchitecturalCoating   | EF_Nonresidential_Exterior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Nonresidential_Interior      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Parking                      | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Exterior         | 250.00        | 50.00      |
| tblArchitecturalCoating   | EF_Residential_Interior         | 250.00        | 50.00      |
| tblAreaCoating            | Area_EF_Nonresidential_Exterior | 250           | 50         |
| tblAreaCoating            | Area_EF_Nonresidential_Interior | 250           | 50         |
| tblAreaCoating            | Area_EF_Parking                 | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Exterior    | 250           | 50         |
| tblAreaCoating            | Area_EF_Residential_Interior    | 250           | 50         |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 12/13/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/15/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/11/2018  |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 11/29/2018 |
| tblConstructionPhase      | PhaseEndDate                    | 12/31/2017    | 1/3/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/30/2018 |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/12/2018  |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 1/4/2018   |
| tblConstructionPhase      | PhaseStartDate                  | 1/1/2018      | 11/16/2018 |
| tblProjectCharacteristics | OperationalYear                 | 2018          | 2050       |
| tblProjectCharacteristics | UrbanizationLevel               | Urban         | Rural      |
| tblVehicleTrips           | ST_TR                           | 9.91          | 10.41      |
| tblVehicleTrips           | SU_TR                           | 8.62          | 9.05       |
| tblVehicleTrips           | WD_TR                           | 9.52          | 10.00      |

## 2.0 Emissions Summary

---

Fallbrook 21+, UM - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1896 | 24.3405 | 15.8955 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2063        | 4.4770      | 0.0000   | 2,572.173<br>3 | 2,572.173<br>3 | 0.7719 | 0.0000 | 2,591.471<br>2 |
| Maximum | 8.1896 | 24.3405 | 15.8955 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2063        | 4.4770      | 0.0000   | 2,572.173<br>3 | 2,572.173<br>3 | 0.7719 | 0.0000 | 2,591.471<br>2 |

### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |                |                |        |        |                |
| 2018    | 8.1896 | 24.3405 | 15.8955 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2063        | 4.4770      | 0.0000   | 2,572.173<br>3 | 2,572.173<br>3 | 0.7719 | 0.0000 | 2,591.471<br>2 |
| Maximum | 8.1896 | 24.3405 | 15.8955 | 0.0257 | 6.6801        | 1.2587       | 7.8493     | 3.4014         | 1.2063        | 4.4770      | 0.0000   | 2,572.173<br>3 | 2,572.173<br>3 | 0.7719 | 0.0000 | 2,591.471<br>2 |

[illegible]

## Fallbrook 21+, UM - San Diego County, Winter

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

|              | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0674         | 0.3589        | 0.9103         | 4.5100e-003   | 0.5721        | 1.6500e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |                 | 464.8793        | 464.8793        | 0.0215        |               | 465.4156        |
| <b>Total</b> | <b>11.0963</b> | <b>0.6403</b> | <b>14.7369</b> | <b>0.0289</b> | <b>0.5721</b> | <b>1.8643</b> | <b>2.4364</b> | <b>0.1529</b>  | <b>1.8641</b> | <b>2.0171</b> | <b>194.4021</b> | <b>631.2149</b> | <b>825.6170</b> | <b>0.2035</b> | <b>0.0168</b> | <b>835.7176</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     | lb/day         |               |                |               |               |               |               |                |               |               | lb/day          |                 |                 |               |               |                 |
| Area         | 11.0212        | 0.2158        | 13.7987        | 0.0240        |               | 1.8573        | 1.8573        |                | 1.8573        | 1.8573        | 194.4021        | 82.5693         | 276.9714        | 0.1804        | 0.0153        | 286.0379        |
| Energy       | 7.6800e-003    | 0.0656        | 0.0279         | 4.2000e-004   |               | 5.3100e-003   | 5.3100e-003   |                | 5.3100e-003   | 5.3100e-003   |                 | 83.7663         | 83.7663         | 1.6100e-003   | 1.5400e-003   | 84.2640         |
| Mobile       | 0.0674         | 0.3589        | 0.9103         | 4.5100e-003   | 0.5721        | 1.6500e-003   | 0.5738        | 0.1529         | 1.5300e-003   | 0.1544        |                 | 464.8793        | 464.8793        | 0.0215        |               | 465.4156        |
| <b>Total</b> | <b>11.0963</b> | <b>0.6403</b> | <b>14.7369</b> | <b>0.0289</b> | <b>0.5721</b> | <b>1.8643</b> | <b>2.4364</b> | <b>0.1529</b>  | <b>1.8641</b> | <b>2.0171</b> | <b>194.4021</b> | <b>631.2149</b> | <b>825.6170</b> | <b>0.2035</b> | <b>0.0168</b> | <b>835.7176</b> |

## Fallbrook 21+, UM - San Diego County, Winter

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

### 3.0 Construction Detail

---

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Architectural Coating | Architectural Coating | 11/30/2018 | 12/13/2018 | 5             | 10       |                   |
| 2            | Building Construction | Building Construction | 1/12/2018  | 11/15/2018 | 5             | 220      |                   |
| 3            | Grading               | Grading               | 1/4/2018   | 1/11/2018  | 5             | 6        |                   |
| 4            | Paving                | Paving                | 11/16/2018 | 11/29/2018 | 5             | 10       |                   |
| 5            | Site Preparation      | Site Preparation      | 1/1/2018   | 1/3/2018   | 5             | 3        |                   |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 25,515; Residential Outdoor: 8,505; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Fallbrook 21+, UM - San Diego County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 7.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 8.00        | 130         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Paving Equipment          | 1      | 8.00        | 132         | 0.36        |
| Site Preparation      | Scrapers                  | 1      | 8.00        | 367         | 0.48        |
| Building Construction | Welders                   | 3      | 8.00        | 46          | 0.45        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 8                       | 3.00               | 1.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 0.00                | 16.80              | 6.60               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Fallbrook 21+, UM - San Diego County, Winter

**3.1 Mitigation Measures Construction****3.2 Architectural Coating - 2018****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        |          | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> |          | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.8000e-003        | 5.1000e-003        | 0.0468        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.9700        | 12.9700        | 4.3000e-004        |     | 12.9809        |
| <b>Total</b> | <b>6.8000e-003</b> | <b>5.1000e-003</b> | <b>0.0468</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.9700</b> | <b>12.9700</b> | <b>4.3000e-004</b> |     | <b>12.9809</b> |

## Fallbrook 21+, UM - San Diego County, Winter

**3.2 Architectural Coating - 2018****Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 7.8841        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2986        | 2.0058        | 1.8542        | 2.9700e-003        |               | 0.1506        | 0.1506        |                | 0.1506        | 0.1506        | 0.0000        | 281.4485        | 281.4485        | 0.0267        |     | 282.1171        |
| <b>Total</b>    | <b>8.1828</b> | <b>2.0058</b> | <b>1.8542</b> | <b>2.9700e-003</b> |               | <b>0.1506</b> | <b>0.1506</b> |                | <b>0.1506</b> | <b>0.1506</b> | <b>0.0000</b> | <b>281.4485</b> | <b>281.4485</b> | <b>0.0267</b> |     | <b>282.1171</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day             |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 6.8000e-003        | 5.1000e-003        | 0.0468        | 1.3000e-004        | 0.0128        | 9.0000e-005        | 0.0129        | 3.3900e-003        | 8.0000e-005        | 3.4700e-003        |          | 12.9700        | 12.9700        | 4.3000e-004        |     | 12.9809        |
| <b>Total</b> | <b>6.8000e-003</b> | <b>5.1000e-003</b> | <b>0.0468</b> | <b>1.3000e-004</b> | <b>0.0128</b> | <b>9.0000e-005</b> | <b>0.0129</b> | <b>3.3900e-003</b> | <b>8.0000e-005</b> | <b>3.4700e-003</b> |          | <b>12.9700</b> | <b>12.9700</b> | <b>4.3000e-004</b> |     | <b>12.9809</b> |

## Fallbrook 21+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        |          | 2,329.7759        | 2,329.7759        | 0.5019        |     | 2,342.3232        |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> |          | <b>2,329.7759</b> | <b>2,329.7759</b> | <b>0.5019</b> |     | <b>2,342.3232</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.0500e-003   | 0.1254        | 0.0369        | 2.5000e-004        | 6.1200e-003   | 9.5000e-004        | 7.0800e-003   | 1.7600e-003    | 9.1000e-004        | 2.6800e-003   |          | 26.7959        | 26.7959        | 2.4100e-003        |     | 26.8561        |
| Worker       | 0.0204        | 0.0153        | 0.1403        | 3.9000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 38.9100        | 38.9100        | 1.3000e-003        |     | 38.9425        |
| <b>Total</b> | <b>0.0255</b> | <b>0.1407</b> | <b>0.1772</b> | <b>6.4000e-004</b> | <b>0.0444</b> | <b>1.2200e-003</b> | <b>0.0457</b> | <b>0.0119</b>  | <b>1.1500e-003</b> | <b>0.0131</b> |          | <b>65.7060</b> | <b>65.7060</b> | <b>3.7100e-003</b> |     | <b>65.7986</b> |

## Fallbrook 21+, UM - San Diego County, Winter

**3.3 Building Construction - 2018****Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.9127        | 20.7077        | 15.7183        | 0.0250        |               | 1.2575        | 1.2575        |                | 1.2051        | 1.2051        | 0.0000        | 2,329.775<br>9         | 2,329.775<br>9         | 0.5019        |     | 2,342.323<br>2         |
| <b>Total</b> | <b>2.9127</b> | <b>20.7077</b> | <b>15.7183</b> | <b>0.0250</b> |               | <b>1.2575</b> | <b>1.2575</b> |                | <b>1.2051</b> | <b>1.2051</b> | <b>0.0000</b> | <b>2,329.775<br/>9</b> | <b>2,329.775<br/>9</b> | <b>0.5019</b> |     | <b>2,342.323<br/>2</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 5.0500e-003   | 0.1254        | 0.0369        | 2.5000e-004        | 6.1200e-003   | 9.5000e-004        | 7.0800e-003   | 1.7600e-003    | 9.1000e-004        | 2.6800e-003   |          | 26.7959        | 26.7959        | 2.4100e-003        |     | 26.8561        |
| Worker       | 0.0204        | 0.0153        | 0.1403        | 3.9000e-004        | 0.0383        | 2.7000e-004        | 0.0386        | 0.0102         | 2.4000e-004        | 0.0104        |          | 38.9100        | 38.9100        | 1.3000e-003        |     | 38.9425        |
| <b>Total</b> | <b>0.0255</b> | <b>0.1407</b> | <b>0.1772</b> | <b>6.4000e-004</b> | <b>0.0444</b> | <b>1.2200e-003</b> | <b>0.0457</b> | <b>0.0119</b>  | <b>1.1500e-003</b> | <b>0.0131</b> |          | <b>65.7060</b> | <b>65.7060</b> | <b>3.7100e-003</b> |     | <b>65.7986</b> |

## Fallbrook 21+, UM - San Diego County, Winter

**3.4 Grading - 2018****Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.5523        | 0.0000        | 6.5523        | 3.3675         | 0.0000        | 3.3675        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1515        | 24.2895        | 10.3804        | 0.0206        |               | 1.1683        | 1.1683        |                | 1.0748        | 1.0748        |          | 2,077.4666        | 2,077.4666        | 0.6467        |     | 2,093.6352        |
| <b>Total</b>  | <b>2.1515</b> | <b>24.2895</b> | <b>10.3804</b> | <b>0.0206</b> | <b>6.5523</b> | <b>1.1683</b> | <b>7.7206</b> | <b>3.3675</b>  | <b>1.0748</b> | <b>4.4423</b> |          | <b>2,077.4666</b> | <b>2,077.4666</b> | <b>0.6467</b> |     | <b>2,093.6352</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0680        | 0.0511        | 0.4677        | 1.3000e-003        | 0.1277        | 8.8000e-004        | 0.1286        | 0.0339         | 8.2000e-004        | 0.0347        |          | 129.7001        | 129.7001        | 4.3300e-003        |     | 129.8085        |
| <b>Total</b> | <b>0.0680</b> | <b>0.0511</b> | <b>0.4677</b> | <b>1.3000e-003</b> | <b>0.1277</b> | <b>8.8000e-004</b> | <b>0.1286</b> | <b>0.0339</b>  | <b>8.2000e-004</b> | <b>0.0347</b> |          | <b>129.7001</b> | <b>129.7001</b> | <b>4.3300e-003</b> |     | <b>129.8085</b> |