

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2        | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 2.69        | 15.25        | 16.70        | 0.03        |               | 1.14         | 1.14        |                | 1.14          | 1.14        | 0.00        | 3,041.64        |           | 0.29        |     | 3,047.63        |
| <b>Total</b> | <b>2.69</b> | <b>15.25</b> | <b>16.70</b> | <b>0.03</b> |               | <b>1.14</b>  | <b>1.14</b> |                | <b>1.14</b>   | <b>1.14</b> | <b>0.00</b> | <b>3,041.64</b> |           | <b>0.29</b> |     | <b>3,047.63</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2      | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 3.71          | 0.00         | 3.71         | 0.36           | 0.00          | 0.36        |          | 4.32          |           | 0.00        |     | 4.32          |
| Vendor       | 0.05        | 0.44        | 0.26        | 0.00        | 1.84          | 0.01         | 1.85         | 0.18           | 0.01          | 0.20        |          | 87.24         |           | 0.00        |     | 87.28         |
| Worker       | 0.21        | 0.24        | 1.98        | 0.00        | 18.34         | 0.01         | 18.35        | 1.82           | 0.01          | 1.83        |          | 160.31        |           | 0.02        |     | 160.64        |
| <b>Total</b> | <b>0.26</b> | <b>0.70</b> | <b>2.25</b> | <b>0.00</b> | <b>23.89</b>  | <b>0.02</b>  | <b>23.91</b> | <b>2.36</b>    | <b>0.02</b>   | <b>2.39</b> |          | <b>251.87</b> |           | <b>0.02</b> |     | <b>252.24</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT J-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – BUILDING ERECTION SMALL PRJ V02.xls”

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**Seville Solar Farm - Building Erection**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 185  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.13        | 0.92        | 0.60        | 0.00        | 2.90          | 0.05         | 2.95        | 0.29           | 0.05          | 0.34        | 0.00        | 116.88        | 116.88        | 0.01        | 0.00        | 117.10        |
| <b>Total</b> | <b>0.13</b> | <b>0.92</b> | <b>0.60</b> | <b>0.00</b> | <b>2.90</b>   | <b>0.05</b>  | <b>2.95</b> | <b>0.29</b>    | <b>0.05</b>   | <b>0.34</b> | <b>0.00</b> | <b>116.88</b> | <b>116.88</b> | <b>0.01</b> | <b>0.00</b> | <b>117.10</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.12        | 0.62        | 0.75        | 0.00        | 0.90          | 0.05         | 0.95        | 0.09           | 0.05          | 0.13        | 0.00        | 116.88        | 116.88        | 0.01        | 0.00        | 117.10        |
| <b>Total</b> | <b>0.12</b> | <b>0.62</b> | <b>0.75</b> | <b>0.00</b> | <b>0.90</b>   | <b>0.05</b>  | <b>0.95</b> | <b>0.09</b>    | <b>0.05</b>   | <b>0.13</b> | <b>0.00</b> | <b>116.88</b> | <b>116.88</b> | <b>0.01</b> | <b>0.00</b> | <b>117.10</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 35.20        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 35.20        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.12        | 0.90        | 0.50        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 107.58        | 107.58        | 0.01        | 0.00        | 107.80        |
| <b>Total</b> | <b>0.12</b> | <b>0.90</b> | <b>0.50</b> | <b>0.00</b> |               | <b>0.05</b>  | <b>0.05</b> |                | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>107.58</b> | <b>107.58</b> | <b>0.01</b> | <b>0.00</b> | <b>107.80</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.45          | 0.00         | 0.45        | 0.04           | 0.00          | 0.04        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.22          | 0.00         | 0.22        | 0.02           | 0.00          | 0.02        | 0.00        | 3.10        | 3.10        | 0.00        | 0.00        | 3.10        |
| Worker       | 0.01        | 0.01        | 0.08        | 0.00        | 2.23          | 0.00         | 2.23        | 0.22           | 0.00          | 0.22        | 0.00        | 6.04        | 6.04        | 0.00        | 0.00        | 6.05        |
| <b>Total</b> | <b>0.01</b> | <b>0.03</b> | <b>0.09</b> | <b>0.00</b> | <b>2.90</b>   | <b>0.00</b>  | <b>2.90</b> | <b>0.28</b>    | <b>0.00</b>   | <b>0.28</b> | <b>0.00</b> | <b>9.29</b> | <b>9.29</b> | <b>0.00</b> | <b>0.00</b> | <b>9.30</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.10        | 0.59        | 0.65        | 0.00        |               | 0.04         | 0.04        |                | 0.04          | 0.04        | 0.00        | 107.58        | 107.58        | 0.01        | 0.00        | 107.80        |
| <b>Total</b> | <b>0.10</b> | <b>0.59</b> | <b>0.65</b> | <b>0.00</b> |               | <b>0.04</b>  | <b>0.04</b> |                | <b>0.04</b>   | <b>0.04</b> | <b>0.00</b> | <b>107.58</b> | <b>107.58</b> | <b>0.01</b> | <b>0.00</b> | <b>107.80</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.14          | 0.00         | 0.14        | 0.01           | 0.00          | 0.01        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.07          | 0.00         | 0.07        | 0.01           | 0.00          | 0.01        | 0.00        | 3.10        | 3.10        | 0.00        | 0.00        | 3.10        |
| Worker       | 0.01        | 0.01        | 0.08        | 0.00        | 0.69          | 0.00         | 0.69        | 0.07           | 0.00          | 0.07        | 0.00        | 6.04        | 6.04        | 0.00        | 0.00        | 6.05        |
| <b>Total</b> | <b>0.01</b> | <b>0.03</b> | <b>0.09</b> | <b>0.00</b> | <b>0.90</b>   | <b>0.00</b>  | <b>0.90</b> | <b>0.09</b>    | <b>0.00</b>   | <b>0.09</b> | <b>0.00</b> | <b>9.29</b> | <b>9.29</b> | <b>0.00</b> | <b>0.00</b> | <b>9.30</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 35.20     | 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      |
| Unmitigated  | 35.20     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 3.73         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 31.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 3.73         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 31.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT K

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – SUBSTATION CONSTRUC SMALL PRJ V02.xls”

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ATTACHMENT K-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC SMALL PRJ V02.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### **Model Title: Seville – Substation Construction** **CalEEMod Seville – Substation Construction Small Prj V02.xls**

#### **Project Characteristics Tab**

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### **Land Use Tab**

- **Land Use** - This model calculates the emissions from equipment and traffic associated with the construction of a portion of the electrical substation for the Seville Solar Farm Complex. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with a less than one acre portion of the electrical substation for which each of the five Seville Solar Farm lots would construct. ‘Lot Acreage’ for this portion of the substation for the Seville Solar Farm “Small Project” Lot totals to 1 acre.

#### **Construction Tabs**

- **Construction Phase** - This model calculates the emissions from the substation construction (building construction) equipment, and the worker, vendor and haul traffic associated with construction of the 1-acre portion of the substation. All other phases except building construction are deleted.
  - o Building Construction - 5/1/2014 – 8/31/2014
- **Off-road Equipment (Building Construction)** – Substation construction equipment emissions are calculated in this model. Default equipment is altered to reflect the equipment below.

| <b>Equipment Type</b>              | <b>Amount</b> | <b>Daily Usage (Hours)</b> |
|------------------------------------|---------------|----------------------------|
| Aerial Lifts                       | 2             | 6                          |
| Cranes                             | 1             | 6                          |
| Other General Industrial Equipment | 1             | 8                          |
| Tractor/Loader/Backhoe             | 1             | 6                          |

- **Trips and VMT** – Only substation construction trips and VMT emissions are calculated in this model. Substation construction requires 10 worker and 4 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 0.8 miles of unpaved roads would be traveled by traffic accessing the substation area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker = 1-(0.8 miles unpaved roads to Project / 10.2 miles)=92.2% paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor= 1-(0.8 miles unpaved roads to Project / 11.9 miles)=93.3% paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul= 1-(0.8 miles unpaved roads to Project / 20 miles)=96% paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading fugitive dust emissions are not calculated in CalEEMod. Grading fugitive dust emissions are calculated using AP-42 emission factors (see Supplemental Project Description and Attachment V).

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT K-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - Substation Construction**  
**Imperial County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 1    | User Defined Unit |

### 1.2 Other Project Characteristics

|                     |       |                                  |     |                        |                              |
|---------------------|-------|----------------------------------|-----|------------------------|------------------------------|
| <b>Urbanization</b> | Rural | <b>Wind Speed (m/s)</b>          | 3.4 | <b>Utility Company</b> | Imperial Irrigation District |
| <b>Climate Zone</b> | 15    | <b>Precipitation Freq (Days)</b> | 12  |                        |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 2.64   | 17.09 | 11.53 | 0.02 | 16.62         | 0.95         | 17.57      | 1.64           | 0.95          | 2.60        | 0.00     | 2,070.46  | 0.00      | 0.23 | 0.00 | 2,075.35 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.03   | 10.38 | 12.96 | 0.02 | 5.27          | 0.83         | 6.09       | 0.51           | 0.83          | 1.34        | 0.00     | 2,070.46  | 0.00      | 0.23 | 0.00 | 2,075.35 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 2.51        | 16.95        | 10.34        | 0.02        |               | 0.95         | 0.95        |                | 0.95          | 0.95        |          | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>2.51</b> | <b>16.95</b> | <b>10.34</b> | <b>0.02</b> |               | <b>0.95</b>  | <b>0.95</b> |                | <b>0.95</b>   | <b>0.95</b> |          | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 4.80          | 0.00         | 4.80         | 0.47           | 0.00          | 0.47        |          | 3.23         |           | 0.00        |     | 3.23         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.13        | 0.12        | 1.18        | 0.00        | 11.82         | 0.00         | 11.83        | 1.17           | 0.00          | 1.18        |          | 84.71        |           | 0.01        |     | 84.89        |
| <b>Total</b> | <b>0.13</b> | <b>0.14</b> | <b>1.19</b> | <b>0.00</b> | <b>16.62</b>  | <b>0.00</b>  | <b>16.63</b> | <b>1.64</b>    | <b>0.00</b>   | <b>1.65</b> |          | <b>87.94</b> |           | <b>0.01</b> |     | <b>88.12</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 1.90        | 10.24        | 11.77        | 0.02        |               | 0.82         | 0.82        |                | 0.82          | 0.82        | 0.00        | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>1.90</b> | <b>10.24</b> | <b>11.77</b> | <b>0.02</b> |               | <b>0.82</b>  | <b>0.82</b> |                | <b>0.82</b>   | <b>0.82</b> | <b>0.00</b> | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 1.54          | 0.00         | 1.54        | 0.14           | 0.00          | 0.15        |          | 3.23         |           | 0.00        |     | 3.23         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.13        | 0.12        | 1.18        | 0.00        | 3.72          | 0.00         | 3.73        | 0.36           | 0.00          | 0.37        |          | 84.71        |           | 0.01        |     | 84.89        |
| <b>Total</b> | <b>0.13</b> | <b>0.14</b> | <b>1.19</b> | <b>0.00</b> | <b>5.26</b>   | <b>0.00</b>  | <b>5.27</b> | <b>0.50</b>    | <b>0.00</b>   | <b>0.52</b> |          | <b>87.94</b> |           | <b>0.01</b> |     | <b>88.12</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### Mitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT K-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - Substation Construction**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 1    | User Defined Unit |

### 1.2 Other Project Characteristics

|                     |       |                                  |     |                        |                              |
|---------------------|-------|----------------------------------|-----|------------------------|------------------------------|
| <b>Urbanization</b> | Rural | <b>Wind Speed (m/s)</b>          | 3.4 | <b>Utility Company</b> | Imperial Irrigation District |
| <b>Climate Zone</b> | 15    | <b>Precipitation Freq (Days)</b> | 12  |                        |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 2.62   | 17.09 | 11.34 | 0.02 | 16.62         | 0.95         | 17.57      | 1.64           | 0.95          | 2.60        | 0.00     | 2,065.89  | 0.00      | 0.23 | 0.00 | 2,070.76 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.01   | 10.38 | 12.77 | 0.02 | 5.27          | 0.83         | 6.09       | 0.51           | 0.83          | 1.34        | 0.00     | 2,065.89  | 0.00      | 0.23 | 0.00 | 2,070.76 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 2.51        | 16.95        | 10.34        | 0.02        |               | 0.95         | 0.95        |                | 0.95          | 0.95        |          | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>2.51</b> | <b>16.95</b> | <b>10.34</b> | <b>0.02</b> |               | <b>0.95</b>  | <b>0.95</b> |                | <b>0.95</b>   | <b>0.95</b> |          | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 4.80          | 0.00         | 4.80         | 0.47           | 0.00          | 0.47        |          | 3.21         |           | 0.00        |     | 3.21         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.10        | 0.12        | 0.99        | 0.00        | 11.82         | 0.00         | 11.83        | 1.17           | 0.00          | 1.18        |          | 80.16        |           | 0.01        |     | 80.32        |
| <b>Total</b> | <b>0.10</b> | <b>0.14</b> | <b>1.00</b> | <b>0.00</b> | <b>16.62</b>  | <b>0.00</b>  | <b>16.63</b> | <b>1.64</b>    | <b>0.00</b>   | <b>1.65</b> |          | <b>83.37</b> |           | <b>0.01</b> |     | <b>83.53</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 1.90        | 10.24        | 11.77        | 0.02        |               | 0.82         | 0.82        |                | 0.82          | 0.82        | 0.00        | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>1.90</b> | <b>10.24</b> | <b>11.77</b> | <b>0.02</b> |               | <b>0.82</b>  | <b>0.82</b> |                | <b>0.82</b>   | <b>0.82</b> | <b>0.00</b> | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 1.54          | 0.00         | 1.54        | 0.14           | 0.00          | 0.15        |          | 3.21         |           | 0.00        |     | 3.21         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.10        | 0.12        | 0.99        | 0.00        | 3.72          | 0.00         | 3.73        | 0.36           | 0.00          | 0.37        |          | 80.16        |           | 0.01        |     | 80.32        |
| <b>Total</b> | <b>0.10</b> | <b>0.14</b> | <b>1.00</b> | <b>0.00</b> | <b>5.26</b>   | <b>0.00</b>  | <b>5.27</b> | <b>0.50</b>    | <b>0.00</b>   | <b>0.52</b> |          | <b>83.37</b> |           | <b>0.01</b> |     | <b>83.53</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### Mitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT K-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - Substation Construction**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 1    | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.14        | 0.90        | 0.60        | 0.00        | 0.84          | 0.05         | 0.89        | 0.08           | 0.05          | 0.13        | 0.00        | 98.62        | 98.62        | 0.01        | 0.00        | 98.85        |
| <b>Total</b> | <b>0.14</b> | <b>0.90</b> | <b>0.60</b> | <b>0.00</b> | <b>0.84</b>   | <b>0.05</b>  | <b>0.89</b> | <b>0.08</b>    | <b>0.05</b>   | <b>0.13</b> | <b>0.00</b> | <b>98.62</b> | <b>98.62</b> | <b>0.01</b> | <b>0.00</b> | <b>98.85</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.11        | 0.54        | 0.68        | 0.00        | 0.27          | 0.04         | 0.31        | 0.03           | 0.04          | 0.07        | 0.00        | 98.62        | 98.62        | 0.01        | 0.00        | 98.85        |
| <b>Total</b> | <b>0.11</b> | <b>0.54</b> | <b>0.68</b> | <b>0.00</b> | <b>0.27</b>   | <b>0.04</b>  | <b>0.31</b> | <b>0.03</b>    | <b>0.04</b>   | <b>0.07</b> | <b>0.00</b> | <b>98.62</b> | <b>98.62</b> | <b>0.01</b> | <b>0.00</b> | <b>98.85</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 0.19        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>0.19</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 0.19        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>0.19</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Off-Road     | 0.13        | 0.89        | 0.54        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 94.40        | 94.40        | 0.01        | 0.00        | 94.62        |
| <b>Total</b> | <b>0.13</b> | <b>0.89</b> | <b>0.54</b> | <b>0.00</b> |               | <b>0.05</b>  | <b>0.05</b> |                | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>94.40</b> | <b>94.40</b> | <b>0.01</b> | <b>0.00</b> | <b>94.62</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.24          | 0.00         | 0.24        | 0.02           | 0.00          | 0.02        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.01        | 0.01        | 0.06        | 0.00        | 0.60          | 0.00         | 0.60        | 0.06           | 0.00          | 0.06        | 0.00        | 4.07        | 4.07        | 0.00        | 0.00        | 4.07        |
| <b>Total</b> | <b>0.01</b> | <b>0.01</b> | <b>0.06</b> | <b>0.00</b> | <b>0.84</b>   | <b>0.00</b>  | <b>0.84</b> | <b>0.08</b>    | <b>0.00</b>   | <b>0.08</b> | <b>0.00</b> | <b>4.22</b> | <b>4.22</b> | <b>0.00</b> | <b>0.00</b> | <b>4.22</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Off-Road     | 0.10        | 0.54        | 0.62        | 0.00        |               | 0.04         | 0.04        |                | 0.04          | 0.04        | 0.00        | 94.40        | 94.40        | 0.01        | 0.00        | 94.62        |
| <b>Total</b> | <b>0.10</b> | <b>0.54</b> | <b>0.62</b> | <b>0.00</b> |               | <b>0.04</b>  | <b>0.04</b> |                | <b>0.04</b>   | <b>0.04</b> | <b>0.00</b> | <b>94.40</b> | <b>94.40</b> | <b>0.01</b> | <b>0.00</b> | <b>94.62</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.08          | 0.00         | 0.08        | 0.01           | 0.00          | 0.01        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.01        | 0.01        | 0.06        | 0.00        | 0.19          | 0.00         | 0.19        | 0.02           | 0.00          | 0.02        | 0.00        | 4.07        | 4.07        | 0.00        | 0.00        | 4.07        |
| <b>Total</b> | <b>0.01</b> | <b>0.01</b> | <b>0.06</b> | <b>0.00</b> | <b>0.27</b>   | <b>0.00</b>  | <b>0.27</b> | <b>0.03</b>    | <b>0.00</b>   | <b>0.03</b> | <b>0.00</b> | <b>4.22</b> | <b>4.22</b> | <b>0.00</b> | <b>0.00</b> | <b>4.22</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 0.19      | 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      |
| Unmitigated  | 0.19      | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.02        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.17        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>0.19</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.02        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.17        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>0.19</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT L

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – GENTIE CONSTRUC SMALL PRJ V02.xls”

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ATTACHMENT L-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – GENTIE CONSTRUC SMALL PRJ V02.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### **Model Title: Seville – GenTie Power Line Construction CalEEMod Seville – GenTie Construc Small Prj V02.xls**

#### **Project Characteristics Tab**

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### **Land Use Tab**

- **Land Use** - This model calculates the emissions from equipment and traffic associated with the construction of a portion of the gentie power line for the Seville Solar Farm Complex. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the “Small Project” acreage since each of the five Seville Solar Farm lots would construct a portion of the gentie power line. ‘Lot Acreage’ for the Seville Solar Farm “Small Project” Lot totals to 185 acre.

#### **Construction Tabs**

- **Construction Phase** - This model calculates the emissions from the gentie power line construction (building construction) equipment, and the worker, vendor and haul traffic associated with construction of the gentie power line. All other phases except building construction are deleted.
  - o Building Construction - 5/1/2014 – 7/31/2014
- **Off-road Equipment (Building Construction)** – Gentie power line equipment emissions are calculated in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type   | Amount | Daily Usage (Hours) |
|------------------|--------|---------------------|
| Aerial Lifts     | 3      | 4                   |
| Crawler Tractors | 2      | 4                   |

- **Trips and VMT** – Only gentie power line construction trips and VMT emissions are calculated in this model. Gentie power line construction requires 12 worker and 2 vendor trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 2.0 miles of unpaved roads would be traveled by traffic accessing the “Small Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker = 1-(2.0 miles unpaved roads to Project / 10.2 miles)=80.4% paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor= 1-(2.0 miles unpaved roads to Project / 11.9 miles)=83.2% paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul= 1-(2.0 miles unpaved roads to Project / 20 miles)=90% paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading fugitive dust emissions are not calculated in CalEEMod. Grading fugitive dust emissions are calculated using AP-42 emission factors (see Supplemental Project Description and Attachment V).
- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

## Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

## Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

## Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT L-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – GENTIE CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - GenTie Line Construction**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 185  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |        |
| 2014  | 1.79   | 8.50 | 7.52 | 0.01 | 41.34         | 0.69         | 42.02      | 4.12           | 0.69          | 4.80        | 0.00     | 949.92    | 0.00      | 0.16 | 0.00 | 953.18 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

### 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   |           |           |      |      |        |
| 2014  | 1.28   | 5.39 | 6.78 | 0.01 | 12.85         | 0.48         | 13.33      | 1.27           | 0.48          | 1.76        | 0.00     | 949.92    | 0.00      | 0.16 | 0.00 | 953.18 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

## 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         | 192.90        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 192.90        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Off-Road     | 1.60        | 7.92        | 5.85        | 0.01        |               | 0.67         | 0.67        |                | 0.67          | 0.67        |          | 760.45        |           | 0.14        |     | 763.46        |
| <b>Total</b> | <b>1.60</b> | <b>7.92</b> | <b>5.85</b> | <b>0.01</b> |               | <b>0.67</b>  | <b>0.67</b> |                | <b>0.67</b>   | <b>0.67</b> |          | <b>760.45</b> |           | <b>0.14</b> |     | <b>763.46</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Vendor       | 0.05        | 0.44        | 0.25        | 0.00        | 5.91          | 0.01         | 5.92         | 0.59           | 0.01          | 0.60        |          | 87.82         |           | 0.00        |     | 87.86         |
| Worker       | 0.15        | 0.15        | 1.42        | 0.00        | 35.43         | 0.00         | 35.43        | 3.53           | 0.00          | 3.53        |          | 101.65        |           | 0.01        |     | 101.87        |
| <b>Total</b> | <b>0.20</b> | <b>0.59</b> | <b>1.67</b> | <b>0.00</b> | <b>41.34</b>  | <b>0.01</b>  | <b>41.35</b> | <b>4.12</b>    | <b>0.01</b>   | <b>4.13</b> |          | <b>189.47</b> |           | <b>0.01</b> |     | <b>189.73</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |               |           |             |     |               |
| Off-Road     | 1.08        | 4.80        | 5.12        | 0.01        |               | 0.46         | 0.46        |                | 0.46          | 0.46        | 0.00        | 760.45        |           | 0.14        |     | 763.46        |
| <b>Total</b> | <b>1.08</b> | <b>4.80</b> | <b>5.12</b> | <b>0.01</b> |               | <b>0.46</b>  | <b>0.46</b> |                | <b>0.46</b>   | <b>0.46</b> | <b>0.00</b> | <b>760.45</b> |           | <b>0.14</b> |     | <b>763.46</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Vendor       | 0.05        | 0.44        | 0.25        | 0.00        | 1.84          | 0.01         | 1.85         | 0.18           | 0.01          | 0.20        |          | 87.82         |           | 0.00        |     | 87.86         |
| Worker       | 0.15        | 0.15        | 1.42        | 0.00        | 11.01         | 0.00         | 11.01        | 1.09           | 0.00          | 1.10        |          | 101.65        |           | 0.01        |     | 101.87        |
| <b>Total</b> | <b>0.20</b> | <b>0.59</b> | <b>1.67</b> | <b>0.00</b> | <b>12.85</b>  | <b>0.01</b>  | <b>12.86</b> | <b>1.27</b>    | <b>0.01</b>   | <b>1.30</b> |          | <b>189.47</b> |           | <b>0.01</b> |     | <b>189.73</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT L-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – GENTIE CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - GenTie Line Construction**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 185  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |        |
| 2014  | 1.77   | 8.51 | 7.31 | 0.01 | 41.34         | 0.69         | 42.02      | 4.12           | 0.69          | 4.80        | 0.00     | 943.89    | 0.00      | 0.15 | 0.00 | 947.13 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

### 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   |           |           |      |      |        |
| 2014  | 1.26   | 5.39 | 6.57 | 0.01 | 12.85         | 0.48         | 13.33      | 1.27           | 0.48          | 1.76        | 0.00     | 943.89    | 0.00      | 0.15 | 0.00 | 947.13 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

## 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         | 192.90        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 192.90        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Off-Road     | 1.60        | 7.92        | 5.85        | 0.01        |               | 0.67         | 0.67        |                | 0.67          | 0.67        |          | 760.45        |           | 0.14        |     | 763.46        |
| <b>Total</b> | <b>1.60</b> | <b>7.92</b> | <b>5.85</b> | <b>0.01</b> |               | <b>0.67</b>  | <b>0.67</b> |                | <b>0.67</b>   | <b>0.67</b> |          | <b>760.45</b> |           | <b>0.14</b> |     | <b>763.46</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Vendor       | 0.05        | 0.44        | 0.26        | 0.00        | 5.91          | 0.01         | 5.92         | 0.59           | 0.01          | 0.60        |          | 87.24         |           | 0.00        |     | 87.28         |
| Worker       | 0.13        | 0.14        | 1.19        | 0.00        | 35.43         | 0.00         | 35.43        | 3.53           | 0.00          | 3.53        |          | 96.19         |           | 0.01        |     | 96.39         |
| <b>Total</b> | <b>0.18</b> | <b>0.58</b> | <b>1.45</b> | <b>0.00</b> | <b>41.34</b>  | <b>0.01</b>  | <b>41.35</b> | <b>4.12</b>    | <b>0.01</b>   | <b>4.13</b> |          | <b>183.43</b> |           | <b>0.01</b> |     | <b>183.67</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |               |           |             |     |               |
| Off-Road     | 1.08        | 4.80        | 5.12        | 0.01        |               | 0.46         | 0.46        |                | 0.46          | 0.46        | 0.00        | 760.45        |           | 0.14        |     | 763.46        |
| <b>Total</b> | <b>1.08</b> | <b>4.80</b> | <b>5.12</b> | <b>0.01</b> |               | <b>0.46</b>  | <b>0.46</b> |                | <b>0.46</b>   | <b>0.46</b> | <b>0.00</b> | <b>760.45</b> |           | <b>0.14</b> |     | <b>763.46</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Vendor       | 0.05        | 0.44        | 0.26        | 0.00        | 1.84          | 0.01         | 1.85         | 0.18           | 0.01          | 0.20        |          | 87.24         |           | 0.00        |     | 87.28         |
| Worker       | 0.13        | 0.14        | 1.19        | 0.00        | 11.01         | 0.00         | 11.01        | 1.09           | 0.00          | 1.10        |          | 96.19         |           | 0.01        |     | 96.39         |
| <b>Total</b> | <b>0.18</b> | <b>0.58</b> | <b>1.45</b> | <b>0.00</b> | <b>12.85</b>  | <b>0.01</b>  | <b>12.86</b> | <b>1.27</b>    | <b>0.01</b>   | <b>1.30</b> |          | <b>183.43</b> |           | <b>0.01</b> |     | <b>183.67</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 192.90    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 20.45         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 172.45        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>192.90</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT L-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “SMALL PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – GENTIE CONSTRUC SMALL PRJ V02.xls”

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**Seville Solar Farm - GenTie Line Construction**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 185  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.07        | 0.33        | 0.29        | 0.00        | 1.58          | 0.03         | 1.61        | 0.16           | 0.03          | 0.18        | 0.00        | 34.05        | 34.05        | 0.01        | 0.00        | 34.17        |
| <b>Total</b> | <b>0.07</b> | <b>0.33</b> | <b>0.29</b> | <b>0.00</b> | <b>1.58</b>   | <b>0.03</b>  | <b>1.61</b> | <b>0.16</b>    | <b>0.03</b>   | <b>0.18</b> | <b>0.00</b> | <b>34.05</b> | <b>34.05</b> | <b>0.01</b> | <b>0.00</b> | <b>34.17</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.05        | 0.21        | 0.26        | 0.00        | 0.49          | 0.02         | 0.51        | 0.05           | 0.02          | 0.07        | 0.00        | 34.05        | 34.05        | 0.01        | 0.00        | 34.17        |
| <b>Total</b> | <b>0.05</b> | <b>0.21</b> | <b>0.26</b> | <b>0.00</b> | <b>0.49</b>   | <b>0.02</b>  | <b>0.51</b> | <b>0.05</b>    | <b>0.02</b>   | <b>0.07</b> | <b>0.00</b> | <b>34.05</b> | <b>34.05</b> | <b>0.01</b> | <b>0.00</b> | <b>34.17</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 35.20        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 35.20        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Off-Road     | 0.06        | 0.31        | 0.23        | 0.00        |               | 0.03         | 0.03        |                | 0.03          | 0.03        | 0.00        | 27.24        | 27.24        | 0.01        | 0.00        | 27.35        |
| <b>Total</b> | <b>0.06</b> | <b>0.31</b> | <b>0.23</b> | <b>0.00</b> |               | <b>0.03</b>  | <b>0.03</b> |                | <b>0.03</b>   | <b>0.03</b> | <b>0.00</b> | <b>27.24</b> | <b>27.24</b> | <b>0.01</b> | <b>0.00</b> | <b>27.35</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.23          | 0.00         | 0.23        | 0.02           | 0.00          | 0.02        | 0.00        | 3.14        | 3.14        | 0.00        | 0.00        | 3.14        |
| Worker       | 0.00        | 0.01        | 0.05        | 0.00        | 1.35          | 0.00         | 1.35        | 0.13           | 0.00          | 0.13        | 0.00        | 3.67        | 3.67        | 0.00        | 0.00        | 3.68        |
| <b>Total</b> | <b>0.00</b> | <b>0.03</b> | <b>0.06</b> | <b>0.00</b> | <b>1.58</b>   | <b>0.00</b>  | <b>1.58</b> | <b>0.15</b>    | <b>0.00</b>   | <b>0.15</b> | <b>0.00</b> | <b>6.81</b> | <b>6.81</b> | <b>0.00</b> | <b>0.00</b> | <b>6.82</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Off-Road     | 0.04        | 0.19        | 0.20        | 0.00        |               | 0.02         | 0.02        |                | 0.02          | 0.02        | 0.00        | 27.24        | 27.24        | 0.01        | 0.00        | 27.35        |
| <b>Total</b> | <b>0.04</b> | <b>0.19</b> | <b>0.20</b> | <b>0.00</b> |               | <b>0.02</b>  | <b>0.02</b> |                | <b>0.02</b>   | <b>0.02</b> | <b>0.00</b> | <b>27.24</b> | <b>27.24</b> | <b>0.01</b> | <b>0.00</b> | <b>27.35</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.07          | 0.00         | 0.07        | 0.01           | 0.00          | 0.01        | 0.00        | 3.14        | 3.14        | 0.00        | 0.00        | 3.14        |
| Worker       | 0.00        | 0.01        | 0.05        | 0.00        | 0.42          | 0.00         | 0.42        | 0.04           | 0.00          | 0.04        | 0.00        | 3.67        | 3.67        | 0.00        | 0.00        | 3.68        |
| <b>Total</b> | <b>0.00</b> | <b>0.03</b> | <b>0.06</b> | <b>0.00</b> | <b>0.49</b>   | <b>0.00</b>  | <b>0.49</b> | <b>0.05</b>    | <b>0.00</b>   | <b>0.05</b> | <b>0.00</b> | <b>6.81</b> | <b>6.81</b> | <b>0.00</b> | <b>0.00</b> | <b>6.82</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 35.20     | 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      |
| Unmitigated  | 35.20     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 3.73         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 31.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 3.73         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 31.47        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>35.20</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT M

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – INTERNAL RD CONSTRUC LARGE PRJ V03.xls”

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ATTACHMENT M-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – INTERNAL RD CONSTRUC LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### Model Title: Seville – Internal Rd Network Construction CalEEMod Seville – Internal Rd Construc Large Prj V03.xls

#### Project Characteristics Tab

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### Land Use Tab

- **Land Use** - This model calculates the emissions from equipment and traffic associated with the grading and construction of the internal road network for the Seville Solar Farm Complex. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with a one mile portion of the internal common use road for which each of the five Seville Solar Farm lots would construct. ‘Lot Acreage’ for this portion of the internal road network for the Seville Solar Farm “Large Project” Lot totals to 3.5 acres.

#### Construction Tabs

- **Construction Phase** - This model calculates the emissions from the internal road network grading/construction equipment, and the worker, vendor and haul traffic associated with grading/construction of the portion of the internal road network. All other phases except grading are deleted.
  - o Grading - 4/16/2014 – 4/30/2014
- **Off-road Equipment (Grading)** – Internal road network grading/construction equipment emissions are calculated in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type                    | Amount | Daily Usage (Hours) |
|-----------------------------------|--------|---------------------|
| Graders                           | 1      | 6                   |
| Water Trucks (Off-Highway Trucks) | 1      | 6                   |
| Rollers                           | 2      | 4                   |
| Tractors/Loaders/Backhoes         | 1      | 6                   |

- **Trips and VMT** – Only internal road network grading/construction trips and VMT emissions are calculated in this model. Grading requires 30 worker and 6 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker =  $1 - (1.2 \text{ miles unpaved roads to Project} / 10.2 \text{ miles}) = 88.2\%$  paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor=  $1 - (1.2 \text{ miles unpaved roads to Project} / 11.9 \text{ miles}) = 89.9\%$  paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul=  $1 - (1.2 \text{ miles unpaved roads to Project} / 20 \text{ miles}) = 94\%$  paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading fugitive dust emissions are not calculated in CalEEMod. Grading fugitive dust emissions are calculated using AP-42 emission factors (see Supplemental Project

Description and Attachment V). Default grading 'dust from material movement' acreage has been zeroed out.

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads and during grading); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT M-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – INTERNAL RD CONSTRUC LARGE PRJ V03.xls”

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**Seville Solar Farm - Internal Rd Network Construction**  
**Imperial County, Summer**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 3.6  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 3.57   | 23.69 | 17.01 | 0.03 | 64.20         | 1.30         | 65.50      | 6.38           | 1.30          | 7.67        | 0.00     | 3,447.31  | 0.00      | 0.31 | 0.00 | 3,453.82 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.75   | 15.56 | 21.01 | 0.03 | 20.11         | 1.15         | 21.26      | 1.97           | 1.15          | 3.12        | 0.00     | 3,447.31  | 0.00      | 0.31 | 0.00 | 3,453.82 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 3.75        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>3.75</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 3.75        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>3.75</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 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 |             |              |              |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          |                 |           |             |     | 0.00            |
| Off-Road      | 3.18        | 23.11        | 13.38        | 0.03        |               | 1.28         | 1.28        |                | 1.28          | 1.28        |          | 3,154.07        |           | 0.28        |     | 3,160.03        |
| <b>Total</b>  | <b>3.18</b> | <b>23.11</b> | <b>13.38</b> | <b>0.03</b> | <b>0.00</b>   | <b>1.28</b>  | <b>1.28</b> | <b>0.00</b>    | <b>1.28</b>   | <b>1.28</b> |          | <b>3,154.07</b> |           | <b>0.28</b> |     | <b>3,160.03</b> |

### 3.2 Grading - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.38        | 0.37        | 3.54        | 0.00        | 53.47         | 0.01         | 53.48        | 5.32           | 0.01          | 5.33        |          | 254.13        |           | 0.03        |     | 254.67        |
| <b>Total</b> | <b>0.40</b> | <b>0.59</b> | <b>3.62</b> | <b>0.00</b> | <b>64.20</b>  | <b>0.02</b>  | <b>64.22</b> | <b>6.38</b>    | <b>0.02</b>   | <b>6.40</b> |          | <b>293.23</b> |           | <b>0.03</b> |     | <b>293.79</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|---------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category      | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Fugitive Dust |             |              |              |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |             |                 |           |             |     | 0.00            |
| Off-Road      | 2.36        | 14.98        | 17.38        | 0.03        |               | 1.13         | 1.13        |                | 1.13          | 1.13        | 0.00        | 3,154.07        |           | 0.28        |     | 3,160.03        |
| <b>Total</b>  | <b>2.36</b> | <b>14.98</b> | <b>17.38</b> | <b>0.03</b> | <b>0.00</b>   | <b>1.13</b>  | <b>1.13</b> | <b>0.00</b>    | <b>1.13</b>   | <b>1.13</b> | <b>0.00</b> | <b>3,154.07</b> |           | <b>0.28</b> |     | <b>3,160.03</b> |

### 3.2 Grading - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 3.40          | 0.01         | 3.41         | 0.33           | 0.01          | 0.33        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.38        | 0.37        | 3.54        | 0.00        | 16.71         | 0.01         | 16.72        | 1.65           | 0.01          | 1.66        |          | 254.13        |           | 0.03        |     | 254.67        |
| <b>Total</b> | <b>0.40</b> | <b>0.59</b> | <b>3.62</b> | <b>0.00</b> | <b>20.11</b>  | <b>0.02</b>  | <b>20.13</b> | <b>1.98</b>    | <b>0.02</b>   | <b>1.99</b> |          | <b>293.23</b> |           | <b>0.03</b> |     | <b>293.79</b> |

### 4.0 Mobile Detail

---

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 3.75      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 3.75      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.40        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 3.36        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>3.76</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 0.40        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 3.36        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>3.76</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT M-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – INTERNAL RD CONSTRUC LARGE PRJ V03.xls”

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**Seville Solar Farm - Internal Rd Network Construction**  
**Imperial County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 3.6  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 3.51   | 23.68 | 16.44 | 0.03 | 64.20         | 1.30         | 65.50      | 6.38           | 1.30          | 7.67        | 0.00     | 3,433.39  | 0.00      | 0.31 | 0.00 | 3,439.85 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.69   | 15.56 | 20.44 | 0.03 | 20.11         | 1.15         | 21.26      | 1.97           | 1.15          | 3.12        | 0.00     | 3,433.39  | 0.00      | 0.31 | 0.00 | 3,439.85 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 3.75        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>3.75</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 3.75        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>3.75</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 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 |             |              |              |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          |                 |           |             |     | 0.00            |
| Off-Road      | 3.18        | 23.11        | 13.38        | 0.03        |               | 1.28         | 1.28        |                | 1.28          | 1.28        |          | 3,154.07        |           | 0.28        |     | 3,160.03        |
| <b>Total</b>  | <b>3.18</b> | <b>23.11</b> | <b>13.38</b> | <b>0.03</b> | <b>0.00</b>   | <b>1.28</b>  | <b>1.28</b> | <b>0.00</b>    | <b>1.28</b>   | <b>1.28</b> |          | <b>3,154.07</b> |           | <b>0.28</b> |     | <b>3,160.03</b> |

### 3.2 Grading - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.31        | 0.36        | 2.97        | 0.00        | 53.47         | 0.01         | 53.48        | 5.32           | 0.01          | 5.33        |          | 240.47        |           | 0.02        |     | 240.97        |
| <b>Total</b> | <b>0.33</b> | <b>0.58</b> | <b>3.06</b> | <b>0.00</b> | <b>64.20</b>  | <b>0.02</b>  | <b>64.22</b> | <b>6.38</b>    | <b>0.02</b>   | <b>6.40</b> |          | <b>279.31</b> |           | <b>0.02</b> |     | <b>279.83</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|---------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category      | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Fugitive Dust |             |              |              |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |             |                 |           |             |     | 0.00            |
| Off-Road      | 2.36        | 14.98        | 17.38        | 0.03        |               | 1.13         | 1.13        |                | 1.13          | 1.13        | 0.00        | 3,154.07        |           | 0.28        |     | 3,160.03        |
| <b>Total</b>  | <b>2.36</b> | <b>14.98</b> | <b>17.38</b> | <b>0.03</b> | <b>0.00</b>   | <b>1.13</b>  | <b>1.13</b> | <b>0.00</b>    | <b>1.13</b>   | <b>1.13</b> | <b>0.00</b> | <b>3,154.07</b> |           | <b>0.28</b> |     | <b>3,160.03</b> |

### 3.2 Grading - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 3.40          | 0.01         | 3.41         | 0.33           | 0.01          | 0.33        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.31        | 0.36        | 2.97        | 0.00        | 16.71         | 0.01         | 16.72        | 1.65           | 0.01          | 1.66        |          | 240.47        |           | 0.02        |     | 240.97        |
| <b>Total</b> | <b>0.33</b> | <b>0.58</b> | <b>3.06</b> | <b>0.00</b> | <b>20.11</b>  | <b>0.02</b>  | <b>20.13</b> | <b>1.98</b>    | <b>0.02</b>   | <b>1.99</b> |          | <b>279.31</b> |           | <b>0.02</b> |     | <b>279.83</b> |

### 4.0 Mobile Detail

---

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 3.75      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 3.75      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.40        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 3.36        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>3.76</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 0.40        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 3.36        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>3.76</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

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## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT M-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – INTERNAL RD CONSTRUC LARGE PRJ V03.xls”

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**Seville Solar Farm - Internal Rd Network Construction**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 3.6  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.02        | 0.15        | 0.11        | 0.00        | 0.40          | 0.01         | 0.41        | 0.04           | 0.01          | 0.05        | 0.00        | 20.33        | 20.33        | 0.00        | 0.00        | 20.37        |
| <b>Total</b> | <b>0.02</b> | <b>0.15</b> | <b>0.11</b> | <b>0.00</b> | <b>0.40</b>   | <b>0.01</b>  | <b>0.41</b> | <b>0.04</b>    | <b>0.01</b>   | <b>0.05</b> | <b>0.00</b> | <b>20.33</b> | <b>20.33</b> | <b>0.00</b> | <b>0.00</b> | <b>20.37</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| 2014         | 0.02        | 0.10        | 0.13        | 0.00        | 0.13          | 0.01         | 0.13        | 0.01           | 0.01          | 0.02        | 0.00        | 20.33        | 20.33        | 0.00        | 0.00        | 20.37        |
| <b>Total</b> | <b>0.02</b> | <b>0.10</b> | <b>0.13</b> | <b>0.00</b> | <b>0.13</b>   | <b>0.01</b>  | <b>0.13</b> | <b>0.01</b>    | <b>0.01</b>   | <b>0.02</b> | <b>0.00</b> | <b>20.33</b> | <b>20.33</b> | <b>0.00</b> | <b>0.00</b> | <b>20.37</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 0.69        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>0.69</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 0.69        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |             |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>0.69</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.02        | 0.15        | 0.09        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 18.59        | 18.59        | 0.00        | 0.00        | 18.63        |
| <b>Total</b>  | <b>0.02</b> | <b>0.15</b> | <b>0.09</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.01</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>18.59</b> | <b>18.59</b> | <b>0.00</b> | <b>0.00</b> | <b>18.63</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.07          | 0.00         | 0.07        | 0.01           | 0.00          | 0.01        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.02        | 0.00        | 0.34          | 0.00         | 0.34        | 0.03           | 0.00          | 0.03        | 0.00        | 1.51        | 1.51        | 0.00        | 0.00        | 1.51        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.41</b>   | <b>0.00</b>  | <b>0.41</b> | <b>0.04</b>    | <b>0.00</b>   | <b>0.04</b> | <b>0.00</b> | <b>1.74</b> | <b>1.74</b> | <b>0.00</b> | <b>0.00</b> | <b>1.74</b> |

### 3.2 Grading - 2014

#### Mitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2    | Total CO2    | CH4         | N2O         | CO2e         |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |              |              |             |             |              |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00        | 0.00         |
| Off-Road      | 0.02        | 0.10        | 0.11        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 18.59        | 18.59        | 0.00        | 0.00        | 18.63        |
| <b>Total</b>  | <b>0.02</b> | <b>0.10</b> | <b>0.11</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.01</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>18.59</b> | <b>18.59</b> | <b>0.00</b> | <b>0.00</b> | <b>18.63</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.02          | 0.00         | 0.02        | 0.00           | 0.00          | 0.00        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.02        | 0.00        | 0.11          | 0.00         | 0.11        | 0.01           | 0.00          | 0.01        | 0.00        | 1.51        | 1.51        | 0.00        | 0.00        | 1.51        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.13</b>   | <b>0.00</b>  | <b>0.13</b> | <b>0.01</b>    | <b>0.00</b>   | <b>0.01</b> | <b>0.00</b> | <b>1.74</b> | <b>1.74</b> | <b>0.00</b> | <b>0.00</b> | <b>1.74</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

## 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 0.69      | 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      |
| Unmitigated  | 0.69      | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.07        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.61        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>0.68</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.07        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 0.61        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>0.68</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT N

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – DEMOLITION LARGE PRJ V03.xls”

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ATTACHMENT N-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – DEMOLITION LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### **Model Title: Seville – Demolition CalEEMod Seville – Demolition Large Prj V02.xls**

#### **Project Characteristics Tab**

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### **Land Use Tab**

- **Land Use** - This model calculates the emissions from equipment and traffic associated with demolition on the Seville Solar Farm “Large Project” lot. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with one of the ~300-acre Seville Solar Farm “Large Project” Lots (Lot 4 or Lot 5). ‘Lot Acreage’ for one Seville Solar Farm “Large Project” Lot totals to 319 acres.

#### **Construction Tabs**

- **Construction Phase** - This model calculates the emissions from the demolition fugitive dust, demolition equipment, and the worker, vendor and haul traffic associated with demolition. All other phases except demolition are deleted.
  - o Demolition - 4/16/2014 – 4/30/2014
- **Off-road Equipment (Demolition)** – Demolition equipment emissions are calculated for a ~300-acre “Large Project” lot in this model. Default equipment is altered to reflect the equipment below.

| <b>Equipment Type</b>     | <b>Amount</b> | <b>Daily Usage (Hours)</b> |
|---------------------------|---------------|----------------------------|
| Tractors/Loaders/Backhoes | 2             | 8                          |

- **Trips and VMT** – Only demolition trips and VMT emissions are calculated for a ~300-acre “Large Project” lot in this model. Demolition requires 8 worker and 6 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker =  $1 - (1.2 \text{ miles unpaved roads to Project} / 10.2 \text{ miles}) = 88.2\%$  paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor=  $1 - (1.2 \text{ miles unpaved roads to Project} / 11.9 \text{ miles}) = 89.9\%$  paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul=  $1 - (1.2 \text{ miles unpaved roads to Project} / 20 \text{ miles}) = 94\%$  paved
- **Demolition** - Demolition fugitive dust emissions are calculated in this model. The tons of debris hauled is equal to 6 haul trucks per day in on-road fugitive dust (above).
- **Dust from Material Movement** - Grading emissions are calculated in a separate CalEEMod model and Attachment V. (see Supplemental Project Description and Attachment V)
- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

## Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

## Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

## Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT N-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – DEMOLITION LARGE PRJ V03.xls”

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**Seville Solar Farm - Demolition**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |        |
| 2014  | 1.13   | 7.10 | 6.62 | 0.01 | 24.99         | 0.55         | 25.53      | 2.48           | 0.55          | 3.02        | 0.00     | 933.02    | 0.00      | 0.10 | 0.00 | 935.07 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

### 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   |           |           |      |      |        |
| 2014  | 0.84   | 4.67 | 6.41 | 0.01 | 7.86          | 0.45         | 8.30       | 0.77           | 0.45          | 1.21        | 0.00     | 933.02    | 0.00      | 0.10 | 0.00 | 935.07 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Off-Road     | 1.01        | 6.79        | 5.59        | 0.01        |               | 0.54         | 0.54        |                | 0.54          | 0.54        |          | 826.15        |           | 0.09        |     | 828.04        |
| <b>Total</b> | <b>1.01</b> | <b>6.79</b> | <b>5.59</b> | <b>0.01</b> |               | <b>0.54</b>  | <b>0.54</b> |                | <b>0.54</b>   | <b>0.54</b> |          | <b>826.15</b> |           | <b>0.09</b> |     | <b>828.04</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.10        | 0.10        | 0.95        | 0.00        | 14.26         | 0.00         | 14.26        | 1.42           | 0.00          | 1.42        |          | 67.77         |           | 0.01        |     | 67.91         |
| <b>Total</b> | <b>0.12</b> | <b>0.32</b> | <b>1.03</b> | <b>0.00</b> | <b>24.99</b>  | <b>0.01</b>  | <b>25.00</b> | <b>2.48</b>    | <b>0.01</b>   | <b>2.49</b> |          | <b>106.87</b> |           | <b>0.01</b> |     | <b>107.03</b> |

### 3.2 Demolition - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |               |           |             |     |               |
| Off-Road     | 0.73        | 4.36        | 5.38        | 0.01        |               | 0.44         | 0.44        |                | 0.44          | 0.44        | 0.00        | 826.15        |           | 0.09        |     | 828.04        |
| <b>Total</b> | <b>0.73</b> | <b>4.36</b> | <b>5.38</b> | <b>0.01</b> |               | <b>0.44</b>  | <b>0.44</b> |                | <b>0.44</b>   | <b>0.44</b> | <b>0.00</b> | <b>826.15</b> |           | <b>0.09</b> |     | <b>828.04</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 3.40          | 0.01         | 3.41        | 0.33           | 0.01          | 0.33        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.10        | 0.10        | 0.95        | 0.00        | 4.46          | 0.00         | 4.46        | 0.44           | 0.00          | 0.44        |          | 67.77         |           | 0.01        |     | 67.91         |
| <b>Total</b> | <b>0.12</b> | <b>0.32</b> | <b>1.03</b> | <b>0.00</b> | <b>7.86</b>   | <b>0.01</b>  | <b>7.87</b> | <b>0.77</b>    | <b>0.01</b>   | <b>0.77</b> |          | <b>106.87</b> |           | <b>0.01</b> |     | <b>107.03</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT N-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – DEMOLITION LARGE PRJ V03.xls”

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**Seville Solar Farm - Demolition**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |        |
| 2014  | 1.11   | 7.10 | 6.48 | 0.01 | 24.99         | 0.55         | 25.53      | 2.48           | 0.55          | 3.02        | 0.00     | 929.11    | 0.00      | 0.10 | 0.00 | 931.15 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

### 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   |           |           |      |      |        |
| 2014  | 0.83   | 4.68 | 6.26 | 0.01 | 7.86          | 0.45         | 8.30       | 0.77           | 0.45          | 1.21        | 0.00     | 929.11    | 0.00      | 0.10 | 0.00 | 931.15 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA     |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Off-Road     | 1.01        | 6.79        | 5.59        | 0.01        |               | 0.54         | 0.54        |                | 0.54          | 0.54        |          | 826.15        |           | 0.09        |     | 828.04        |
| <b>Total</b> | <b>1.01</b> | <b>6.79</b> | <b>5.59</b> | <b>0.01</b> |               | <b>0.54</b>  | <b>0.54</b> |                | <b>0.54</b>   | <b>0.54</b> |          | <b>826.15</b> |           | <b>0.09</b> |     | <b>828.04</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.08        | 0.10        | 0.79        | 0.00        | 14.26         | 0.00         | 14.26        | 1.42           | 0.00          | 1.42        |          | 64.13         |           | 0.01        |     | 64.26         |
| <b>Total</b> | <b>0.10</b> | <b>0.32</b> | <b>0.88</b> | <b>0.00</b> | <b>24.99</b>  | <b>0.01</b>  | <b>25.00</b> | <b>2.48</b>    | <b>0.01</b>   | <b>2.49</b> |          | <b>102.97</b> |           | <b>0.01</b> |     | <b>103.12</b> |

### 3.2 Demolition - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |               |           |             |     |               |
| Off-Road     | 0.73        | 4.36        | 5.38        | 0.01        |               | 0.44         | 0.44        |                | 0.44          | 0.44        | 0.00        | 826.15        |           | 0.09        |     | 828.04        |
| <b>Total</b> | <b>0.73</b> | <b>4.36</b> | <b>5.38</b> | <b>0.01</b> |               | <b>0.44</b>  | <b>0.44</b> |                | <b>0.44</b>   | <b>0.44</b> | <b>0.00</b> | <b>826.15</b> |           | <b>0.09</b> |     | <b>828.04</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 3.40          | 0.01         | 3.41        | 0.33           | 0.01          | 0.33        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.08        | 0.10        | 0.79        | 0.00        | 4.46          | 0.00         | 4.46        | 0.44           | 0.00          | 0.44        |          | 64.13         |           | 0.01        |     | 64.26         |
| <b>Total</b> | <b>0.10</b> | <b>0.32</b> | <b>0.88</b> | <b>0.00</b> | <b>7.86</b>   | <b>0.01</b>  | <b>7.87</b> | <b>0.77</b>    | <b>0.01</b>   | <b>0.77</b> |          | <b>102.97</b> |           | <b>0.01</b> |     | <b>103.12</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT N-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – DEMOLITION LARGE PRJ V03.xls”

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**Seville Solar Farm - Demolition**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| 2014         | 0.01        | 0.05        | 0.04        | 0.00        | 0.16          | 0.00         | 0.16        | 0.02           | 0.00          | 0.02        | 0.00        | 5.50        | 5.50        | 0.00        | 0.00        | 5.51        |
| <b>Total</b> | <b>0.01</b> | <b>0.05</b> | <b>0.04</b> | <b>0.00</b> | <b>0.16</b>   | <b>0.00</b>  | <b>0.16</b> | <b>0.02</b>    | <b>0.00</b>   | <b>0.02</b> | <b>0.00</b> | <b>5.50</b> | <b>5.50</b> | <b>0.00</b> | <b>0.00</b> | <b>5.51</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| 2014         | 0.01        | 0.03        | 0.04        | 0.00        | 0.05          | 0.00         | 0.05        | 0.00           | 0.00          | 0.01        | 0.00        | 5.50        | 5.50        | 0.00        | 0.00        | 5.51        |
| <b>Total</b> | <b>0.01</b> | <b>0.03</b> | <b>0.04</b> | <b>0.00</b> | <b>0.05</b>   | <b>0.00</b>  | <b>0.05</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.01</b> | <b>0.00</b> | <b>5.50</b> | <b>5.50</b> | <b>0.00</b> | <b>0.00</b> | <b>5.51</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Off-Road     | 0.01        | 0.04        | 0.04        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 4.87        | 4.87        | 0.00        | 0.00        | 4.88        |
| <b>Total</b> | <b>0.01</b> | <b>0.04</b> | <b>0.04</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>4.87</b> | <b>4.87</b> | <b>0.00</b> | <b>0.00</b> | <b>4.88</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.07          | 0.00         | 0.07        | 0.01           | 0.00          | 0.01        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.09          | 0.00         | 0.09        | 0.01           | 0.00          | 0.01        | 0.00        | 0.40        | 0.40        | 0.00        | 0.00        | 0.40        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.16</b>   | <b>0.00</b>  | <b>0.16</b> | <b>0.02</b>    | <b>0.00</b>   | <b>0.02</b> | <b>0.00</b> | <b>0.63</b> | <b>0.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> |

### 3.2 Demolition - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Off-Road     | 0.00        | 0.03        | 0.03        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 4.87        | 4.87        | 0.00        | 0.00        | 4.88        |
| <b>Total</b> | <b>0.00</b> | <b>0.03</b> | <b>0.03</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>4.87</b> | <b>4.87</b> | <b>0.00</b> | <b>0.00</b> | <b>4.88</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.02          | 0.00         | 0.02        | 0.00           | 0.00          | 0.00        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.03          | 0.00         | 0.03        | 0.00           | 0.00          | 0.00        | 0.00        | 0.40        | 0.40        | 0.00        | 0.00        | 0.40        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.05</b>   | <b>0.00</b>  | <b>0.05</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> | <b>0.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 60.70     | 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      |
| Unmitigated  | 60.70     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT O

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – SITE PREPARATION LARGE PRJ V03.xls”

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ATTACHMENT O-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – SITE PREPARATION LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### Model Title: Seville – Site Preparation

### CalEEMod Seville – Site Preparation Large Prj V03.xls

#### Project Characteristics Tab

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### Land Use Tab

- **Land Use** - This model calculates the emissions from equipment and traffic associated with site preparation on the Seville Solar Farm “Large Project” lot. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with one of the ~300-acre Seville Solar Farm “Large Project” Lots (Lot 4 or Lot 5). ‘Lot Acreage’ for one Seville Solar Farm “Large Project” Lot totals to 319 acres.

#### Construction Tabs

- **Construction Phase** - This model calculates the emissions from the site preparation fugitive dust, site preparation equipment, and the worker, vendor and haul traffic associated with site preparation. All other phases except site preparation are deleted.
  - o Site Preparation - 4/16/2014 – 4/30/2014
- **Off-road Equipment (Site Preparation)** – Site preparation equipment emissions are calculated for a ~300-acre “Large Project” lot in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type            | Amount | Daily Usage (Hours) |
|---------------------------|--------|---------------------|
| Tractors/Loaders/Backhoes | 3      | 8                   |

- **Trips and VMT** – Only site preparation trips and VMT emissions are calculated for a ~300-acre “Large Project” lot in this model. Site preparation requires 8 worker and 6 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker =  $1 - (1.2 \text{ miles unpaved roads to Project} / 10.2 \text{ miles}) = 88.2\%$  paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor=  $1 - (1.2 \text{ miles unpaved roads to Project} / 11.9 \text{ miles}) = 89.9\%$  paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul=  $1 - (1.2 \text{ miles unpaved roads to Project} / 20 \text{ miles}) = 94\%$  paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading emissions are calculated in a separate CalEEMod model and Attachment V. (see Supplemental Project Description and Attachment V). Site preparation emissions are calculated in this CalEEMod Model.
- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

## Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

## Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

## Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT O-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – SITE PREPARATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Site Preparation**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 1.64   | 10.50 | 9.42 | 0.01 | 24.99         | 0.81         | 25.80      | 2.48           | 0.81          | 3.29        | 0.00     | 1,346.09  | 0.00      | 0.14 | 0.00 | 1,349.09 |
| Total | NA     | NA    | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 1.21   | 6.86 | 9.10 | 0.01 | 7.86          | 0.66         | 8.52       | 0.77           | 0.66          | 1.43        | 0.00     | 1,346.09  | 0.00      | 0.14 | 0.00 | 1,349.09 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Preparation - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx          | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 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 |             |              |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          |                 |           |             |     | 0.00            |
| Off-Road      | 1.52        | 10.19        | 8.39        | 0.01        |               | 0.80         | 0.80        |                | 0.80          | 0.80        |          | 1,239.22        |           | 0.14        |     | 1,242.06        |
| <b>Total</b>  | <b>1.52</b> | <b>10.19</b> | <b>8.39</b> | <b>0.01</b> | <b>0.00</b>   | <b>0.80</b>  | <b>0.80</b> | <b>0.00</b>    | <b>0.80</b>   | <b>0.80</b> |          | <b>1,239.22</b> |           | <b>0.14</b> |     | <b>1,242.06</b> |

### 3.2 Site Preparation - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.10        | 0.10        | 0.95        | 0.00        | 14.26         | 0.00         | 14.26        | 1.42           | 0.00          | 1.42        |          | 67.77         |           | 0.01        |     | 67.91         |
| <b>Total</b> | <b>0.12</b> | <b>0.32</b> | <b>1.03</b> | <b>0.00</b> | <b>24.99</b>  | <b>0.01</b>  | <b>25.00</b> | <b>2.48</b>    | <b>0.01</b>   | <b>2.49</b> |          | <b>106.87</b> |           | <b>0.01</b> |     | <b>107.03</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category      | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |             |                 |           |             |     | 0.00            |
| Off-Road      | 1.09        | 6.54        | 8.07        | 0.01        |               | 0.65         | 0.65        |                | 0.65          | 0.65        | 0.00        | 1,239.22        |           | 0.14        |     | 1,242.06        |
| <b>Total</b>  | <b>1.09</b> | <b>6.54</b> | <b>8.07</b> | <b>0.01</b> | <b>0.00</b>   | <b>0.65</b>  | <b>0.65</b> | <b>0.00</b>    | <b>0.65</b>   | <b>0.65</b> | <b>0.00</b> | <b>1,239.22</b> |           | <b>0.14</b> |     | <b>1,242.06</b> |

### 3.2 Site Preparation - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.08        | 0.00        | 3.40          | 0.01         | 3.41        | 0.33           | 0.01          | 0.33        |          | 39.10         |           | 0.00        |     | 39.12         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.10        | 0.10        | 0.95        | 0.00        | 4.46          | 0.00         | 4.46        | 0.44           | 0.00          | 0.44        |          | 67.77         |           | 0.01        |     | 67.91         |
| <b>Total</b> | <b>0.12</b> | <b>0.32</b> | <b>1.03</b> | <b>0.00</b> | <b>7.86</b>   | <b>0.01</b>  | <b>7.87</b> | <b>0.77</b>    | <b>0.01</b>   | <b>0.77</b> |          | <b>106.87</b> |           | <b>0.01</b> |     | <b>107.03</b> |

### 4.0 Mobile Detail

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#### 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   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        |          | 0.00      |           | 0.00 |     | 0.00 |
| Unmitigated | 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 |
| Total       | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA  | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT O-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – SITE PREPARATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Site Preparation**  
**Imperial County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 1.62   | 10.50 | 9.28 | 0.01 | 24.99         | 0.81         | 25.80      | 2.48           | 0.81          | 3.29        | 0.00     | 1,342.18  | 0.00      | 0.14 | 0.00 | 1,345.17 |
| Total | NA     | NA    | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 1.19   | 6.86 | 8.95 | 0.01 | 7.86          | 0.66         | 8.52       | 0.77           | 0.66          | 1.43        | 0.00     | 1,342.18  | 0.00      | 0.14 | 0.00 | 1,345.17 |
| Total | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Preparation - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx          | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 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 |             |              |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          |                 |           |             |     | 0.00            |
| Off-Road      | 1.52        | 10.19        | 8.39        | 0.01        |               | 0.80         | 0.80        |                | 0.80          | 0.80        |          | 1,239.22        |           | 0.14        |     | 1,242.06        |
| <b>Total</b>  | <b>1.52</b> | <b>10.19</b> | <b>8.39</b> | <b>0.01</b> | <b>0.00</b>   | <b>0.80</b>  | <b>0.80</b> | <b>0.00</b>    | <b>0.80</b>   | <b>0.80</b> |          | <b>1,239.22</b> |           | <b>0.14</b> |     | <b>1,242.06</b> |

### 3.2 Site Preparation - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 10.73         | 0.01         | 10.74        | 1.06           | 0.01          | 1.07        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.08        | 0.10        | 0.79        | 0.00        | 14.26         | 0.00         | 14.26        | 1.42           | 0.00          | 1.42        |          | 64.13         |           | 0.01        |     | 64.26         |
| <b>Total</b> | <b>0.10</b> | <b>0.32</b> | <b>0.88</b> | <b>0.00</b> | <b>24.99</b>  | <b>0.01</b>  | <b>25.00</b> | <b>2.48</b>    | <b>0.01</b>   | <b>2.49</b> |          | <b>102.97</b> |           | <b>0.01</b> |     | <b>103.12</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category      | lb/day      |             |             |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |             |                 |           |             |     | 0.00            |
| Off-Road      | 1.09        | 6.54        | 8.07        | 0.01        |               | 0.65         | 0.65        |                | 0.65          | 0.65        | 0.00        | 1,239.22        |           | 0.14        |     | 1,242.06        |
| <b>Total</b>  | <b>1.09</b> | <b>6.54</b> | <b>8.07</b> | <b>0.01</b> | <b>0.00</b>   | <b>0.65</b>  | <b>0.65</b> | <b>0.00</b>    | <b>0.65</b>   | <b>0.65</b> | <b>0.00</b> | <b>1,239.22</b> |           | <b>0.14</b> |     | <b>1,242.06</b> |

### 3.2 Site Preparation - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.02        | 0.22        | 0.09        | 0.00        | 3.40          | 0.01         | 3.41        | 0.33           | 0.01          | 0.33        |          | 38.84         |           | 0.00        |     | 38.86         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.08        | 0.10        | 0.79        | 0.00        | 4.46          | 0.00         | 4.46        | 0.44           | 0.00          | 0.44        |          | 64.13         |           | 0.01        |     | 64.26         |
| <b>Total</b> | <b>0.10</b> | <b>0.32</b> | <b>0.88</b> | <b>0.00</b> | <b>7.86</b>   | <b>0.01</b>  | <b>7.87</b> | <b>0.77</b>    | <b>0.01</b>   | <b>0.77</b> |          | <b>102.97</b> |           | <b>0.01</b> |     | <b>103.12</b> |

### 4.0 Mobile Detail

---

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT O-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – SITE PREPARATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Site Preparation**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| 2014         | 0.01        | 0.07        | 0.06        | 0.00        | 0.16          | 0.01         | 0.16        | 0.02           | 0.01          | 0.02        | 0.00        | 7.94        | 7.94        | 0.00        | 0.00        | 7.96        |
| <b>Total</b> | <b>0.01</b> | <b>0.07</b> | <b>0.06</b> | <b>0.00</b> | <b>0.16</b>   | <b>0.01</b>  | <b>0.16</b> | <b>0.02</b>    | <b>0.01</b>   | <b>0.02</b> | <b>0.00</b> | <b>7.94</b> | <b>7.94</b> | <b>0.00</b> | <b>0.00</b> | <b>7.96</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| 2014         | 0.01        | 0.04        | 0.06        | 0.00        | 0.05          | 0.00         | 0.05        | 0.00           | 0.00          | 0.01        | 0.00        | 7.94        | 7.94        | 0.00        | 0.00        | 7.96        |
| <b>Total</b> | <b>0.01</b> | <b>0.04</b> | <b>0.06</b> | <b>0.00</b> | <b>0.05</b>   | <b>0.00</b>  | <b>0.05</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.01</b> | <b>0.00</b> | <b>7.94</b> | <b>7.94</b> | <b>0.00</b> | <b>0.00</b> | <b>7.96</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Preparation - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Off-Road      | 0.01        | 0.07        | 0.05        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 7.31        | 7.31        | 0.00        | 0.00        | 7.32        |
| <b>Total</b>  | <b>0.01</b> | <b>0.07</b> | <b>0.05</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.01</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.01</b>   | <b>0.01</b> | <b>0.00</b> | <b>7.31</b> | <b>7.31</b> | <b>0.00</b> | <b>0.00</b> | <b>7.32</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.07          | 0.00         | 0.07        | 0.01           | 0.00          | 0.01        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.09          | 0.00         | 0.09        | 0.01           | 0.00          | 0.01        | 0.00        | 0.40        | 0.40        | 0.00        | 0.00        | 0.40        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.16</b>   | <b>0.00</b>  | <b>0.16</b> | <b>0.02</b>    | <b>0.00</b>   | <b>0.02</b> | <b>0.00</b> | <b>0.63</b> | <b>0.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> |

### 3.2 Site Preparation - 2014

#### Mitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Fugitive Dust |             |             |             |             | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Off-Road      | 0.01        | 0.04        | 0.05        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 7.31        | 7.31        | 0.00        | 0.00        | 7.32        |
| <b>Total</b>  | <b>0.01</b> | <b>0.04</b> | <b>0.05</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>7.31</b> | <b>7.31</b> | <b>0.00</b> | <b>0.00</b> | <b>7.32</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.02          | 0.00         | 0.02        | 0.00           | 0.00          | 0.00        | 0.00        | 0.23        | 0.23        | 0.00        | 0.00        | 0.23        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.00        | 0.00        | 0.01        | 0.00        | 0.03          | 0.00         | 0.03        | 0.00           | 0.00          | 0.00        | 0.00        | 0.40        | 0.40        | 0.00        | 0.00        | 0.40        |
| <b>Total</b> | <b>0.00</b> | <b>0.00</b> | <b>0.01</b> | <b>0.00</b> | <b>0.05</b>   | <b>0.00</b>  | <b>0.05</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> | <b>0.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.63</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

## 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

---

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 60.70     | 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      |
| Unmitigated  | 60.70     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT P

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – GRADING LARGE PRJ V03.xls”

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ATTACHMENT P-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – GRADING LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### Model Title: Seville – Grading CalEEMod Seville – Grading Large Prj V03.xls

#### Project Characteristics Tab

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### Land Use Tab

- **Land Use** - This model calculates the emissions from equipment and traffic associated with grading a ~300-acre Seville Solar Farm lot (“Large Project”). The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with one of the ~300-acre Seville Solar Farm “Large Project” Lots (Lot 4 or Lot 5). ‘Lot Acreage’ for one Seville Solar Farm “Large Project” Lot totals to 319 acres.

#### Construction Tabs

- **Construction Phase** - This model calculates the emissions from the grading equipment, and the worker, vendor and haul traffic associated with grading a ~300-acre “Large Project” lot. All other phases except grading are deleted.
  - o Grading - 4/23/2014 – 6/14/2014
- **Off-road Equipment (Grading)** – Grading equipment emissions are calculated for a ~300-acre “Large Project” lot in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type                    | Amount | Daily Usage (Hours) |
|-----------------------------------|--------|---------------------|
| Graders                           | 2      | 6                   |
| Water Trucks (Off-Highway Trucks) | 2      | 7                   |
| Rubber Tired Dozers               | 1      | 5                   |
| Scrapers                          | 2      | 8                   |
| Tractors/Loaders/Backhoes         | 2      | 8                   |

- **Trips and VMT** – Only grading trips and VMT emissions are calculated for a ~300-acre “Large Project” lot in this model. Grading requires 30 worker and 4 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker = 1-(1.2 miles unpaved roads to Project / 10.2 miles)=88.2% paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor= 1-(1.2 miles unpaved roads to Project / 11.9 miles)=89.9% paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul= 1-(1.2 miles unpaved roads to Project / 20 miles)=94% paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading fugitive dust emissions are not calculated in CalEEMod. Grading fugitive dust emissions are calculated using AP-42 emission factors (see Supplemental Project

Description and Attachment V). Default grading 'dust from material movement' acreage has been zeroed out.

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads and during grading); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT P-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – GRADING LARGE PRJ V03.xls”

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**Seville Solar Farm - Grading**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|                     |       |                                  |     |                        |                              |
|---------------------|-------|----------------------------------|-----|------------------------|------------------------------|
| <b>Urbanization</b> | Rural | <b>Wind Speed (m/s)</b>          | 3.4 | <b>Utility Company</b> | Imperial Irrigation District |
| <b>Climate Zone</b> | 15    | <b>Precipitation Freq (Days)</b> | 12  |                        |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |           |
| 2014  | 12.31  | 96.58 | 51.28 | 0.12 | 64.39         | 4.16         | 68.55      | 8.09           | 4.16          | 12.25       | 0.00     | 12,833.23 | 0.00      | 1.09 | 0.00 | 12,856.12 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA        |

### 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   |           |           |      |      |           |
| 2014  | 9.37   | 58.51 | 65.55 | 0.12 | 25.60         | 3.73         | 29.33      | 4.22           | 3.73          | 7.95        | 0.00     | 12,833.23 | 0.00      | 1.09 | 0.00 | 12,856.12 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA        |

## 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         | 297.37        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 297.37        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG          | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2        | Total CO2 | CH4         | N2O | CO2e             |
|---------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|------------------|-----------|-------------|-----|------------------|
| Category      | lb/day       |              |              |             |               |              |             |                |               |             | lb/day   |                  |           |             |     |                  |
| Fugitive Dust |              |              |              |             | 3.76          | 0.00         | 3.76        | 2.07           | 0.00          | 2.07        |          |                  |           |             |     | 0.00             |
| Off-Road      | 11.93        | 96.17        | 47.72        | 0.11        |               | 4.15         | 4.15        |                | 4.15          | 4.15        |          | 12,571.73        |           | 1.06        |     | 12,594.08        |
| <b>Total</b>  | <b>11.93</b> | <b>96.17</b> | <b>47.72</b> | <b>0.11</b> | <b>3.76</b>   | <b>4.15</b>  | <b>7.91</b> | <b>2.07</b>    | <b>4.15</b>   | <b>6.22</b> |          | <b>12,571.73</b> |           | <b>1.06</b> |     | <b>12,594.08</b> |

### 3.2 Grading - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.04        | 0.02        | 0.00        | 7.15          | 0.00         | 7.15         | 0.71           | 0.00          | 0.71        |          | 7.37          |           | 0.00        |     | 7.37          |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.38        | 0.37        | 3.54        | 0.00        | 53.47         | 0.01         | 53.48        | 5.32           | 0.01          | 5.33        |          | 254.13        |           | 0.03        |     | 254.67        |
| <b>Total</b> | <b>0.38</b> | <b>0.41</b> | <b>3.56</b> | <b>0.00</b> | <b>60.62</b>  | <b>0.01</b>  | <b>60.63</b> | <b>6.03</b>    | <b>0.01</b>   | <b>6.04</b> |          | <b>261.50</b> |           | <b>0.03</b> |     | <b>262.04</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2        | Total CO2 | CH4         | N2O | CO2e             |
|---------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|------------------|-----------|-------------|-----|------------------|
| Category      | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                  |           |             |     |                  |
| Fugitive Dust |             |              |              |             | 3.76          | 0.00         | 3.76        | 2.07           | 0.00          | 2.07        |             |                  |           |             |     | 0.00             |
| Off-Road      | 8.99        | 58.10        | 61.99        | 0.11        |               | 3.72         | 3.72        |                | 3.72          | 3.72        | 0.00        | 12,571.73        |           | 1.06        |     | 12,594.08        |
| <b>Total</b>  | <b>8.99</b> | <b>58.10</b> | <b>61.99</b> | <b>0.11</b> | <b>3.76</b>   | <b>3.72</b>  | <b>7.48</b> | <b>2.07</b>    | <b>3.72</b>   | <b>5.79</b> | <b>0.00</b> | <b>12,571.73</b> |           | <b>1.06</b> |     | <b>12,594.08</b> |

### 3.2 Grading - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.04        | 0.02        | 0.00        | 2.60          | 0.00         | 2.60         | 0.25           | 0.00          | 0.25        |          | 7.37          |           | 0.00        |     | 7.37          |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.38        | 0.37        | 3.54        | 0.00        | 19.23         | 0.01         | 19.24        | 1.90           | 0.01          | 1.91        |          | 254.13        |           | 0.03        |     | 254.67        |
| <b>Total</b> | <b>0.38</b> | <b>0.41</b> | <b>3.56</b> | <b>0.00</b> | <b>21.83</b>  | <b>0.01</b>  | <b>21.84</b> | <b>2.15</b>    | <b>0.01</b>   | <b>2.16</b> |          | <b>261.50</b> |           | <b>0.03</b> |     | <b>262.04</b> |

### 4.0 Mobile Detail

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#### 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   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        |          | 0.00      |           | 0.00 |     | 0.00 |
| Unmitigated | 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 |
| Total       | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA  | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 297.37    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 297.37    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.00          |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 0.00          |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT P-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – GRADING LARGE PRJ V03.xls”

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**Seville Solar Farm - Grading**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |           |
| 2014  | 12.25  | 96.57 | 50.70 | 0.12 | 64.39         | 4.16         | 68.55      | 8.09           | 4.16          | 12.25       | 0.00     | 12,819.52 | 0.00      | 1.09 | 0.00 | 12,842.37 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA        |

### 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   |           |           |      |      |           |
| 2014  | 9.31   | 58.50 | 64.98 | 0.12 | 25.60         | 3.73         | 29.33      | 4.22           | 3.73          | 7.95        | 0.00     | 12,819.52 | 0.00      | 1.09 | 0.00 | 12,842.37 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA        |

## 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         | 297.37        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 297.37        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG          | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2        | Total CO2 | CH4         | N2O | CO2e             |
|---------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|------------------|-----------|-------------|-----|------------------|
| Category      | lb/day       |              |              |             |               |              |             |                |               |             | lb/day   |                  |           |             |     |                  |
| Fugitive Dust |              |              |              |             | 3.76          | 0.00         | 3.76        | 2.07           | 0.00          | 2.07        |          |                  |           |             |     | 0.00             |
| Off-Road      | 11.93        | 96.17        | 47.72        | 0.11        |               | 4.15         | 4.15        |                | 4.15          | 4.15        |          | 12,571.73        |           | 1.06        |     | 12,594.08        |
| <b>Total</b>  | <b>11.93</b> | <b>96.17</b> | <b>47.72</b> | <b>0.11</b> | <b>3.76</b>   | <b>4.15</b>  | <b>7.91</b> | <b>2.07</b>    | <b>4.15</b>   | <b>6.22</b> |          | <b>12,571.73</b> |           | <b>1.06</b> |     | <b>12,594.08</b> |

### 3.2 Grading - 2014

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.04        | 0.02        | 0.00        | 7.15          | 0.00         | 7.15         | 0.71           | 0.00          | 0.71        |          | 7.32          |           | 0.00        |     | 7.32          |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.31        | 0.36        | 2.97        | 0.00        | 53.47         | 0.01         | 53.48        | 5.32           | 0.01          | 5.33        |          | 240.47        |           | 0.02        |     | 240.97        |
| <b>Total</b> | <b>0.31</b> | <b>0.40</b> | <b>2.99</b> | <b>0.00</b> | <b>60.62</b>  | <b>0.01</b>  | <b>60.63</b> | <b>6.03</b>    | <b>0.01</b>   | <b>6.04</b> |          | <b>247.79</b> |           | <b>0.02</b> |     | <b>248.29</b> |

#### Mitigated Construction On-Site

|               | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2        | Total CO2 | CH4         | N2O | CO2e             |
|---------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|------------------|-----------|-------------|-----|------------------|
| Category      | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                  |           |             |     |                  |
| Fugitive Dust |             |              |              |             | 3.76          | 0.00         | 3.76        | 2.07           | 0.00          | 2.07        |             |                  |           |             |     | 0.00             |
| Off-Road      | 8.99        | 58.10        | 61.99        | 0.11        |               | 3.72         | 3.72        |                | 3.72          | 3.72        | 0.00        | 12,571.73        |           | 1.06        |     | 12,594.08        |
| <b>Total</b>  | <b>8.99</b> | <b>58.10</b> | <b>61.99</b> | <b>0.11</b> | <b>3.76</b>   | <b>3.72</b>  | <b>7.48</b> | <b>2.07</b>    | <b>3.72</b>   | <b>5.79</b> | <b>0.00</b> | <b>12,571.73</b> |           | <b>1.06</b> |     | <b>12,594.08</b> |

### 3.2 Grading - 2014

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.04        | 0.02        | 0.00        | 2.60          | 0.00         | 2.60         | 0.25           | 0.00          | 0.25        |          | 7.32          |           | 0.00        |     | 7.32          |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00          |           | 0.00        |     | 0.00          |
| Worker       | 0.31        | 0.36        | 2.97        | 0.00        | 19.23         | 0.01         | 19.24        | 1.90           | 0.01          | 1.91        |          | 240.47        |           | 0.02        |     | 240.97        |
| <b>Total</b> | <b>0.31</b> | <b>0.40</b> | <b>2.99</b> | <b>0.00</b> | <b>21.83</b>  | <b>0.01</b>  | <b>21.84</b> | <b>2.15</b>    | <b>0.01</b>   | <b>2.16</b> |          | <b>247.79</b> |           | <b>0.02</b> |     | <b>248.29</b> |

### 4.0 Mobile Detail

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#### 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   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        |          | 0.00      |           | 0.00 |     | 0.00 |
| Unmitigated | 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 |
| Total       | NA     | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA  | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 297.37    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 297.37    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.00          |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 0.00          |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>297.37</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT P-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – GRADING LARGE PRJ V03.xls”

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**Seville Solar Farm - Grading**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.28        | 2.22        | 1.17        | 0.00        | 1.44          | 0.10         | 1.53        | 0.18           | 0.10          | 0.28        | 0.00        | 267.74        | 267.74        | 0.02        | 0.00        | 268.22        |
| <b>Total</b> | <b>0.28</b> | <b>2.22</b> | <b>1.17</b> | <b>0.00</b> | <b>1.44</b>   | <b>0.10</b>  | <b>1.53</b> | <b>0.18</b>    | <b>0.10</b>   | <b>0.28</b> | <b>0.00</b> | <b>267.74</b> | <b>267.74</b> | <b>0.02</b> | <b>0.00</b> | <b>268.22</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.21        | 1.34        | 1.50        | 0.00        | 0.57          | 0.09         | 0.66        | 0.10           | 0.09          | 0.18        | 0.00        | 267.74        | 267.74        | 0.02        | 0.00        | 268.22        |
| <b>Total</b> | <b>0.21</b> | <b>1.34</b> | <b>1.50</b> | <b>0.00</b> | <b>0.57</b>   | <b>0.09</b>  | <b>0.66</b> | <b>0.10</b>    | <b>0.09</b>   | <b>0.18</b> | <b>0.00</b> | <b>267.74</b> | <b>267.74</b> | <b>0.02</b> | <b>0.00</b> | <b>268.22</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 54.27        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>54.27</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 54.27        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>54.27</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Grading - 2014

#### Unmitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Fugitive Dust |             |             |             |             | 0.09          | 0.00         | 0.09        | 0.05           | 0.00          | 0.05        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Off-Road      | 0.27        | 2.21        | 1.10        | 0.00        |               | 0.10         | 0.10        |                | 0.10          | 0.10        | 0.00        | 262.24        | 262.24        | 0.02        | 0.00        | 262.71        |
| <b>Total</b>  | <b>0.27</b> | <b>2.21</b> | <b>1.10</b> | <b>0.00</b> | <b>0.09</b>   | <b>0.10</b>  | <b>0.19</b> | <b>0.05</b>    | <b>0.10</b>   | <b>0.15</b> | <b>0.00</b> | <b>262.24</b> | <b>262.24</b> | <b>0.02</b> | <b>0.00</b> | <b>262.71</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.16          | 0.00         | 0.16        | 0.02           | 0.00          | 0.02        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.01        | 0.01        | 0.07        | 0.00        | 1.19          | 0.00         | 1.19        | 0.12           | 0.00          | 0.12        | 0.00        | 5.34        | 5.34        | 0.00        | 0.00        | 5.35        |
| <b>Total</b> | <b>0.01</b> | <b>0.01</b> | <b>0.07</b> | <b>0.00</b> | <b>1.35</b>   | <b>0.00</b>  | <b>1.35</b> | <b>0.14</b>    | <b>0.00</b>   | <b>0.14</b> | <b>0.00</b> | <b>5.49</b> | <b>5.49</b> | <b>0.00</b> | <b>0.00</b> | <b>5.50</b> |

### 3.2 Grading - 2014

#### Mitigated Construction On-Site

|               | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category      | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Fugitive Dust |             |             |             |             | 0.09          | 0.00         | 0.09        | 0.05           | 0.00          | 0.05        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Off-Road      | 0.21        | 1.34        | 1.43        | 0.00        |               | 0.09         | 0.09        |                | 0.09          | 0.09        | 0.00        | 262.24        | 262.24        | 0.02        | 0.00        | 262.71        |
| <b>Total</b>  | <b>0.21</b> | <b>1.34</b> | <b>1.43</b> | <b>0.00</b> | <b>0.09</b>   | <b>0.09</b>  | <b>0.18</b> | <b>0.05</b>    | <b>0.09</b>   | <b>0.14</b> | <b>0.00</b> | <b>262.24</b> | <b>262.24</b> | <b>0.02</b> | <b>0.00</b> | <b>262.71</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.06          | 0.00         | 0.06        | 0.01           | 0.00          | 0.01        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Worker       | 0.01        | 0.01        | 0.07        | 0.00        | 0.43          | 0.00         | 0.43        | 0.04           | 0.00          | 0.04        | 0.00        | 5.34        | 5.34        | 0.00        | 0.00        | 5.35        |
| <b>Total</b> | <b>0.01</b> | <b>0.01</b> | <b>0.07</b> | <b>0.00</b> | <b>0.49</b>   | <b>0.00</b>  | <b>0.49</b> | <b>0.05</b>    | <b>0.00</b>   | <b>0.05</b> | <b>0.00</b> | <b>5.49</b> | <b>5.49</b> | <b>0.00</b> | <b>0.00</b> | <b>5.50</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

## 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 54.27     | 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      |
| Unmitigated  | 54.27     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.00         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>54.27</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 0.00         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>54.27</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT Q

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – PANEL INSTALLATION LARGE PRJ V03.xls”

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ATTACHMENT Q-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – PANEL INSTALLATION LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### **Model Title: Seville – Solar Panel Installation** **CalEEMod Seville – Panel Installation Large Prj V03.xls**

#### **Project Characteristics Tab**

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### **Land Use Tab**

- **Land Use** - This model calculates the emissions from equipment and traffic associated with solar panel installation on the Seville Solar Farm “Large Project” lot. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with one of the ~300-acre Seville Solar Farm “Large Project” Lots (Lot 4 or Lot 5). ‘Lot Acreage’ for one Seville Solar Farm “Large Project” Lot totals to 319 acres.

#### **Construction Tabs**

- **Construction Phase** - This model calculates the emissions from the solar panel installation (building construction) equipment, and the worker, vendor and haul traffic associated with solar panel installation. All other phases except building construction are deleted.
  - o Building Erection - 6/15/2014 – 11/30/2014
- **Off-road Equipment (Building Construction)** – Solar panel installation equipment emissions are calculated for a ~300-acre “Large Project” lot in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type                     | Amount | Daily Usage (Hours) |
|------------------------------------|--------|---------------------|
| Generator Sets                     | 5      | 8                   |
| Water Trucks (Off-Highway Trucks)  | 1      | 6                   |
| Other General Industrial Equipment | 1      | 6                   |
| Trenchers                          | 2      | 6                   |
| Skid Steer Loaders                 | 2      | 7                   |

- **Trips and VMT** – Only solar panel installation trips and VMT emissions are calculated for a ~300-acre “Large Project” lot in this model. Solar panel installation requires 230 worker and 10 vendor trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker =  $1 - (1.2 \text{ miles unpaved roads to Project} / 10.2 \text{ miles}) = 88.2\%$  paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor=  $1 - (1.2 \text{ miles unpaved roads to Project} / 11.9 \text{ miles}) = 89.9\%$  paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul=  $1 - (1.2 \text{ miles unpaved roads to Project} / 20 \text{ miles}) = 94\%$  paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading emissions are calculated in a separate CalEEMod model and Attachment V. (see Supplemental Project Description and Attachment V)

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT Q-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER

MODEL “CALEEMOD SEVILLE – PANEL INSTALLATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Solar Panel Installation**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 11.07  | 59.87 | 63.48 | 0.09 | 427.77        | 3.83         | 431.60     | 42.54          | 3.83          | 46.36       | 0.00     | 8,839.26  | 0.00      | 0.92 | 0.00 | 8,858.52 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 12.32  | 41.30 | 67.53 | 0.09 | 133.72        | 3.14         | 136.85     | 13.19          | 3.14          | 16.32       | 0.00     | 8,839.26  | 0.00      | 0.92 | 0.00 | 8,858.52 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 7.95        | 54.87        | 35.05        | 0.07        |               | 3.68         | 3.68        |                | 3.68          | 3.68        |          | 6,451.84        |           | 0.71        |     | 6,466.81        |
| <b>Total</b> | <b>7.95</b> | <b>54.87</b> | <b>35.05</b> | <b>0.07</b> |               | <b>3.68</b>  | <b>3.68</b> |                | <b>3.68</b>   | <b>3.68</b> |          | <b>6,451.84</b> |           | <b>0.71</b> |     | <b>6,466.81</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |             |              |             |               |              |               |                |               |              | lb/day   |                 |           |             |     |                 |
| Hauling      | 0.00        | 0.00        | 0.00         | 0.00        | 0.00          | 0.00         | 0.00          | 0.00           | 0.00          | 0.00         |          | 0.00            |           | 0.00        |     | 0.00            |
| Vendor       | 0.24        | 2.19        | 1.25         | 0.00        | 17.83         | 0.07         | 17.89         | 1.78           | 0.07          | 1.85         |          | 439.08          |           | 0.01        |     | 439.28          |
| Worker       | 2.88        | 2.81        | 27.17        | 0.02        | 409.95        | 0.08         | 410.02        | 40.76          | 0.08          | 40.84        |          | 1,948.34        |           | 0.20        |     | 1,952.44        |
| <b>Total</b> | <b>3.12</b> | <b>5.00</b> | <b>28.42</b> | <b>0.02</b> | <b>427.78</b> | <b>0.15</b>  | <b>427.91</b> | <b>42.54</b>   | <b>0.15</b>   | <b>42.69</b> |          | <b>2,387.42</b> |           | <b>0.21</b> |     | <b>2,391.72</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 9.20        | 36.30        | 39.10        | 0.07        |               | 2.99         | 2.99        |                | 2.99          | 2.99        | 0.00        | 6,451.84        |           | 0.71        |     | 6,466.81        |
| <b>Total</b> | <b>9.20</b> | <b>36.30</b> | <b>39.10</b> | <b>0.07</b> |               | <b>2.99</b>  | <b>2.99</b> |                | <b>2.99</b>   | <b>2.99</b> | <b>0.00</b> | <b>6,451.84</b> |           | <b>0.71</b> |     | <b>6,466.81</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |             |              |             |               |              |               |                |               |              | lb/day   |                 |           |             |     |                 |
| Hauling      | 0.00        | 0.00        | 0.00         | 0.00        | 0.00          | 0.00         | 0.00          | 0.00           | 0.00          | 0.00         |          | 0.00            |           | 0.00        |     | 0.00            |
| Vendor       | 0.24        | 2.19        | 1.25         | 0.00        | 5.59          | 0.07         | 5.66          | 0.56           | 0.07          | 0.62         |          | 439.08          |           | 0.01        |     | 439.28          |
| Worker       | 2.88        | 2.81        | 27.17        | 0.02        | 128.13        | 0.08         | 128.20        | 12.63          | 0.08          | 12.71        |          | 1,948.34        |           | 0.20        |     | 1,952.44        |
| <b>Total</b> | <b>3.12</b> | <b>5.00</b> | <b>28.42</b> | <b>0.02</b> | <b>133.72</b> | <b>0.15</b>  | <b>133.86</b> | <b>13.19</b>   | <b>0.15</b>   | <b>13.33</b> |          | <b>2,387.42</b> |           | <b>0.21</b> |     | <b>2,391.72</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT Q-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – PANEL INSTALLATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Solar Panel Installation**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 10.59  | 59.83 | 59.16 | 0.09 | 427.77        | 3.83         | 431.60     | 42.54          | 3.83          | 46.37       | 0.00     | 8,731.67  | 0.00      | 0.90 | 0.00 | 8,750.63 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 11.85  | 41.26 | 63.21 | 0.09 | 133.72        | 3.14         | 136.85     | 13.19          | 3.14          | 16.33       | 0.00     | 8,731.67  | 0.00      | 0.90 | 0.00 | 8,750.63 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 7.95        | 54.87        | 35.05        | 0.07        |               | 3.68         | 3.68        |                | 3.68          | 3.68        |          | 6,451.84        |           | 0.71        |     | 6,466.81        |
| <b>Total</b> | <b>7.95</b> | <b>54.87</b> | <b>35.05</b> | <b>0.07</b> |               | <b>3.68</b>  | <b>3.68</b> |                | <b>3.68</b>   | <b>3.68</b> |          | <b>6,451.84</b> |           | <b>0.71</b> |     | <b>6,466.81</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |             |              |             |               |              |               |                |               |              | lb/day   |                 |           |             |     |                 |
| Hauling      | 0.00        | 0.00        | 0.00         | 0.00        | 0.00          | 0.00         | 0.00          | 0.00           | 0.00          | 0.00         |          | 0.00            |           | 0.00        |     | 0.00            |
| Vendor       | 0.25        | 2.22        | 1.32         | 0.00        | 17.83         | 0.07         | 17.90         | 1.78           | 0.07          | 1.85         |          | 436.21          |           | 0.01        |     | 436.41          |
| Worker       | 2.40        | 2.74        | 22.78        | 0.02        | 409.95        | 0.08         | 410.02        | 40.76          | 0.08          | 40.84        |          | 1,843.61        |           | 0.18        |     | 1,847.41        |
| <b>Total</b> | <b>2.65</b> | <b>4.96</b> | <b>24.10</b> | <b>0.02</b> | <b>427.78</b> | <b>0.15</b>  | <b>427.92</b> | <b>42.54</b>   | <b>0.15</b>   | <b>42.69</b> |          | <b>2,279.82</b> |           | <b>0.19</b> |     | <b>2,283.82</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 9.20        | 36.30        | 39.10        | 0.07        |               | 2.99         | 2.99        |                | 2.99          | 2.99        | 0.00        | 6,451.84        |           | 0.71        |     | 6,466.81        |
| <b>Total</b> | <b>9.20</b> | <b>36.30</b> | <b>39.10</b> | <b>0.07</b> |               | <b>2.99</b>  | <b>2.99</b> |                | <b>2.99</b>   | <b>2.99</b> | <b>0.00</b> | <b>6,451.84</b> |           | <b>0.71</b> |     | <b>6,466.81</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|---------------|----------------|---------------|--------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |             |              |             |               |              |               |                |               |              | lb/day   |                 |           |             |     |                 |
| Hauling      | 0.00        | 0.00        | 0.00         | 0.00        | 0.00          | 0.00         | 0.00          | 0.00           | 0.00          | 0.00         |          | 0.00            |           | 0.00        |     | 0.00            |
| Vendor       | 0.25        | 2.22        | 1.32         | 0.00        | 5.59          | 0.07         | 5.66          | 0.56           | 0.07          | 0.63         |          | 436.21          |           | 0.01        |     | 436.41          |
| Worker       | 2.40        | 2.74        | 22.78        | 0.02        | 128.13        | 0.08         | 128.20        | 12.63          | 0.08          | 12.71        |          | 1,843.61        |           | 0.18        |     | 1,847.41        |
| <b>Total</b> | <b>2.65</b> | <b>4.96</b> | <b>24.10</b> | <b>0.02</b> | <b>133.72</b> | <b>0.15</b>  | <b>133.86</b> | <b>13.19</b>   | <b>0.15</b>   | <b>13.34</b> |          | <b>2,279.82</b> |           | <b>0.19</b> |     | <b>2,283.82</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

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## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT Q-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – PANEL INSTALLATION LARGE PRJ V03.xls”

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**Seville Solar Farm - Solar Panel Installation**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |              |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.76        | 4.29        | 4.41        | 0.01        | 29.79         | 0.28         | 30.06        | 2.96           | 0.28          | 3.24        | 0.00        | 578.16        | 578.16        | 0.06        | 0.00        | 579.41        |
| <b>Total</b> | <b>0.76</b> | <b>4.29</b> | <b>4.41</b> | <b>0.01</b> | <b>29.79</b>  | <b>0.28</b>  | <b>30.06</b> | <b>2.96</b>    | <b>0.28</b>   | <b>3.24</b> | <b>0.00</b> | <b>578.16</b> | <b>578.16</b> | <b>0.06</b> | <b>0.00</b> | <b>579.41</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.85        | 2.95        | 4.70        | 0.01        | 9.31          | 0.23         | 9.54        | 0.92           | 0.23          | 1.14        | 0.00        | 578.16        | 578.16        | 0.06        | 0.00        | 579.41        |
| <b>Total</b> | <b>0.85</b> | <b>2.95</b> | <b>4.70</b> | <b>0.01</b> | <b>9.31</b>   | <b>0.23</b>  | <b>9.54</b> | <b>0.92</b>    | <b>0.23</b>   | <b>1.14</b> | <b>0.00</b> | <b>578.16</b> | <b>578.16</b> | <b>0.06</b> | <b>0.00</b> | <b>579.41</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.57        | 3.95        | 2.52        | 0.00        |               | 0.26         | 0.26        |                | 0.26          | 0.26        | 0.00        | 421.30        | 421.30        | 0.05        | 0.00        | 422.28        |
| <b>Total</b> | <b>0.57</b> | <b>3.95</b> | <b>2.52</b> | <b>0.00</b> |               | <b>0.26</b>  | <b>0.26</b> |                | <b>0.26</b>   | <b>0.26</b> | <b>0.00</b> | <b>421.30</b> | <b>421.30</b> | <b>0.05</b> | <b>0.00</b> | <b>422.28</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |              |                |               |             | MT/yr       |               |               |             |             |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Vendor       | 0.02        | 0.15        | 0.09        | 0.00        | 1.24          | 0.01         | 1.25         | 0.12           | 0.01          | 0.13        | 0.00        | 28.60         | 28.60         | 0.00        | 0.00        | 28.61         |
| Worker       | 0.17        | 0.19        | 1.79        | 0.00        | 28.54         | 0.01         | 28.55        | 2.84           | 0.01          | 2.84        | 0.00        | 128.26        | 128.26        | 0.01        | 0.00        | 128.51        |
| <b>Total</b> | <b>0.19</b> | <b>0.34</b> | <b>1.88</b> | <b>0.00</b> | <b>29.78</b>  | <b>0.02</b>  | <b>29.80</b> | <b>2.96</b>    | <b>0.02</b>   | <b>2.97</b> | <b>0.00</b> | <b>156.86</b> | <b>156.86</b> | <b>0.01</b> | <b>0.00</b> | <b>157.12</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.66        | 2.61        | 2.81        | 0.00        |               | 0.22         | 0.22        |                | 0.22          | 0.22        | 0.00        | 421.30        | 421.30        | 0.05        | 0.00        | 422.28        |
| <b>Total</b> | <b>0.66</b> | <b>2.61</b> | <b>2.81</b> | <b>0.00</b> |               | <b>0.22</b>  | <b>0.22</b> |                | <b>0.22</b>   | <b>0.22</b> | <b>0.00</b> | <b>421.30</b> | <b>421.30</b> | <b>0.05</b> | <b>0.00</b> | <b>422.28</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Vendor       | 0.02        | 0.15        | 0.09        | 0.00        | 0.39          | 0.01         | 0.39        | 0.04           | 0.01          | 0.04        | 0.00        | 28.60         | 28.60         | 0.00        | 0.00        | 28.61         |
| Worker       | 0.17        | 0.19        | 1.79        | 0.00        | 8.92          | 0.01         | 8.93        | 0.88           | 0.01          | 0.89        | 0.00        | 128.26        | 128.26        | 0.01        | 0.00        | 128.51        |
| <b>Total</b> | <b>0.19</b> | <b>0.34</b> | <b>1.88</b> | <b>0.00</b> | <b>9.31</b>   | <b>0.02</b>  | <b>9.32</b> | <b>0.92</b>    | <b>0.02</b>   | <b>0.93</b> | <b>0.00</b> | <b>156.86</b> | <b>156.86</b> | <b>0.01</b> | <b>0.00</b> | <b>157.12</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

---

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 60.70     | 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      |
| Unmitigated  | 60.70     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT R

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – BUILDING ERECTION LARGE PRJ V03.xls”

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ATTACHMENT R-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – BUILDING ERECTION LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### Model Title: Seville – Building Erection

### CalEEMod Seville – Building Erection Large Prj V03.xls

#### Project Characteristics Tab

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### Land Use Tab

- **Land Use** - This model calculates the emissions from equipment and traffic associated with building erection on the Seville Solar Farm “Large Project” lot. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with one of the ~300-acre Seville Solar Farm “Large Project” Lots (Lot 4 or Lot 5). ‘Lot Acreage’ for one Seville Solar Farm “Large Project” Lot totals to 319 acres.

#### Construction Tabs

- **Construction Phase** - This model calculates the emissions from the building erection (building construction) equipment, and the worker, vendor and haul traffic associated with building erection. All other phases except building construction are deleted.
  - o Building Construction - 6/15/2014 – 9/14/2014
- **Off-road Equipment (Building Construction)** – Building erection equipment emissions are calculated for a ~300-acre “Large Project” lot in this model. Default equipment is altered to reflect the equipment below.

| Equipment Type                           | Amount | Daily Usage (Hours) |
|------------------------------------------|--------|---------------------|
| Aerial Lifts                             | 2      | 6                   |
| Concrete Pump (Other Construc Equipment) | 1      | 4                   |
| Cranes                                   | 1      | 6                   |
| Other General Industrial Equipment       | 1      | 6                   |
| Rollers                                  | 1      | 4                   |
| Tractor/Loader/Backhoe                   | 1      | 6                   |

- **Trips and VMT** – Only building erection trips and VMT emissions are calculated for a ~300-acre “Large Project” lot in this model. Building erection requires 20 worker, 2 vendor, and 4 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 1.2 miles of unpaved roads would be traveled by traffic accessing the “Large Project” area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker =  $1 - (1.2 \text{ miles unpaved roads to Project} / 10.2 \text{ miles}) = 88.2\%$  paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor=  $1 - (1.2 \text{ miles unpaved roads to Project} / 11.9 \text{ miles}) = 89.9\%$  paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul=  $1 - (1.2 \text{ miles unpaved roads to Project} / 20 \text{ miles}) = 94\%$  paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading emissions are calculated in a separate CalEEMod model and Attachment V. (see Supplemental Project Description and Attachment V)

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT R-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – BUILDING ERECTION LARGE PRJ V03.xls”

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**Seville Solar Farm - Building Erection**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 3.50   | 23.67 | 15.46 | 0.03 | 46.36         | 1.24         | 47.61      | 4.60           | 1.24          | 5.85        | 0.00     | 3,303.23  | 0.00      | 0.30 | 0.00 | 3,309.61 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.99   | 15.96 | 19.33 | 0.03 | 14.52         | 1.16         | 15.69      | 1.43           | 1.16          | 2.59        | 0.00     | 3,303.23  | 0.00      | 0.30 | 0.00 | 3,309.61 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 3.20        | 22.97        | 12.84        | 0.03        |               | 1.22         | 1.22        |                | 1.22          | 1.22        |          | 3,041.64        |           | 0.29        |     | 3,047.63        |
| <b>Total</b> | <b>3.20</b> | <b>22.97</b> | <b>12.84</b> | <b>0.03</b> |               | <b>1.22</b>  | <b>1.22</b> |                | <b>1.22</b>   | <b>1.22</b> |          | <b>3,041.64</b> |           | <b>0.29</b> |     | <b>3,047.63</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 7.15          | 0.00         | 7.15         | 0.71           | 0.00          | 0.71        |          | 4.34          |           | 0.00        |     | 4.35          |
| Vendor       | 0.05        | 0.44        | 0.25        | 0.00        | 3.57          | 0.01         | 3.58         | 0.36           | 0.01          | 0.37        |          | 87.82         |           | 0.00        |     | 87.86         |
| Worker       | 0.25        | 0.24        | 2.36        | 0.00        | 35.65         | 0.01         | 35.65        | 3.54           | 0.01          | 3.55        |          | 169.42        |           | 0.02        |     | 169.78        |
| <b>Total</b> | <b>0.30</b> | <b>0.70</b> | <b>2.62</b> | <b>0.00</b> | <b>46.37</b>  | <b>0.02</b>  | <b>46.38</b> | <b>4.61</b>    | <b>0.02</b>   | <b>4.63</b> |          | <b>261.58</b> |           | <b>0.02</b> |     | <b>261.99</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 2.69        | 15.25        | 16.70        | 0.03        |               | 1.14         | 1.14        |                | 1.14          | 1.14        | 0.00        | 3,041.64        |           | 0.29        |     | 3,047.63        |
| <b>Total</b> | <b>2.69</b> | <b>15.25</b> | <b>16.70</b> | <b>0.03</b> |               | <b>1.14</b>  | <b>1.14</b> |                | <b>1.14</b>   | <b>1.14</b> | <b>0.00</b> | <b>3,041.64</b> |           | <b>0.29</b> |     | <b>3,047.63</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 2.27          | 0.00         | 2.27         | 0.22           | 0.00          | 0.22        |          | 4.34          |           | 0.00        |     | 4.35          |
| Vendor       | 0.05        | 0.44        | 0.25        | 0.00        | 1.12          | 0.01         | 1.13         | 0.11           | 0.01          | 0.12        |          | 87.82         |           | 0.00        |     | 87.86         |
| Worker       | 0.25        | 0.24        | 2.36        | 0.00        | 11.14         | 0.01         | 11.15        | 1.10           | 0.01          | 1.11        |          | 169.42        |           | 0.02        |     | 169.78        |
| <b>Total</b> | <b>0.30</b> | <b>0.70</b> | <b>2.62</b> | <b>0.00</b> | <b>14.53</b>  | <b>0.02</b>  | <b>14.55</b> | <b>1.43</b>    | <b>0.02</b>   | <b>1.45</b> |          | <b>261.58</b> |           | <b>0.02</b> |     | <b>261.99</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT R-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – BUILDING ERECTION LARGE PRJ V03.xls”

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**Seville Solar Farm - Building Erection**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
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Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
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Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 3.46   | 23.67 | 15.10 | 0.03 | 46.36         | 1.24         | 47.61      | 4.60           | 1.24          | 5.85        | 0.00     | 3,293.52  | 0.00      | 0.30 | 0.00 | 3,299.87 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.95   | 15.96 | 18.96 | 0.03 | 14.52         | 1.16         | 15.69      | 1.43           | 1.16          | 2.59        | 0.00     | 3,293.52  | 0.00      | 0.30 | 0.00 | 3,299.87 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 332.63        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 3.20        | 22.97        | 12.84        | 0.03        |               | 1.22         | 1.22        |                | 1.22          | 1.22        |          | 3,041.64        |           | 0.29        |     | 3,047.63        |
| <b>Total</b> | <b>3.20</b> | <b>22.97</b> | <b>12.84</b> | <b>0.03</b> |               | <b>1.22</b>  | <b>1.22</b> |                | <b>1.22</b>   | <b>1.22</b> |          | <b>3,041.64</b> |           | <b>0.29</b> |     | <b>3,047.63</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 7.15          | 0.00         | 7.15         | 0.71           | 0.00          | 0.71        |          | 4.32          |           | 0.00        |     | 4.32          |
| Vendor       | 0.05        | 0.44        | 0.26        | 0.00        | 3.57          | 0.01         | 3.58         | 0.36           | 0.01          | 0.37        |          | 87.24         |           | 0.00        |     | 87.28         |
| Worker       | 0.21        | 0.24        | 1.98        | 0.00        | 35.65         | 0.01         | 35.65        | 3.54           | 0.01          | 3.55        |          | 160.31        |           | 0.02        |     | 160.64        |
| <b>Total</b> | <b>0.26</b> | <b>0.70</b> | <b>2.25</b> | <b>0.00</b> | <b>46.37</b>  | <b>0.02</b>  | <b>46.38</b> | <b>4.61</b>    | <b>0.02</b>   | <b>4.63</b> |          | <b>251.87</b> |           | <b>0.02</b> |     | <b>252.24</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 2.69        | 15.25        | 16.70        | 0.03        |               | 1.14         | 1.14        |                | 1.14          | 1.14        | 0.00        | 3,041.64        |           | 0.29        |     | 3,047.63        |
| <b>Total</b> | <b>2.69</b> | <b>15.25</b> | <b>16.70</b> | <b>0.03</b> |               | <b>1.14</b>  | <b>1.14</b> |                | <b>1.14</b>   | <b>1.14</b> | <b>0.00</b> | <b>3,041.64</b> |           | <b>0.29</b> |     | <b>3,047.63</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2     | Total CO2 | CH4         | N2O | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-----|---------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |               |           |             |     |               |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 2.27          | 0.00         | 2.27         | 0.22           | 0.00          | 0.22        |          | 4.32          |           | 0.00        |     | 4.32          |
| Vendor       | 0.05        | 0.44        | 0.26        | 0.00        | 1.12          | 0.01         | 1.13         | 0.11           | 0.01          | 0.13        |          | 87.24         |           | 0.00        |     | 87.28         |
| Worker       | 0.21        | 0.24        | 1.98        | 0.00        | 11.14         | 0.01         | 11.15        | 1.10           | 0.01          | 1.11        |          | 160.31        |           | 0.02        |     | 160.64        |
| <b>Total</b> | <b>0.26</b> | <b>0.70</b> | <b>2.25</b> | <b>0.00</b> | <b>14.53</b>  | <b>0.02</b>  | <b>14.55</b> | <b>1.43</b>    | <b>0.02</b>   | <b>1.46</b> |          | <b>251.87</b> |           | <b>0.02</b> |     | <b>252.24</b> |

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 332.63    | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|---------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day        |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### 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 | 35.26         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 297.37        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00          | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>332.63</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT R-4

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL “CALEEMOD SEVILLE – BUILDING ERECTION LARGE PRJ V03.xls”

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**Seville Solar Farm - Building Erection**  
**Imperial County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 319  | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.13        | 0.92        | 0.60        | 0.00        | 1.75          | 0.05         | 1.80        | 0.17           | 0.05          | 0.22        | 0.00        | 116.88        | 116.88        | 0.01        | 0.00        | 117.10        |
| <b>Total</b> | <b>0.13</b> | <b>0.92</b> | <b>0.60</b> | <b>0.00</b> | <b>1.75</b>   | <b>0.05</b>  | <b>1.80</b> | <b>0.17</b>    | <b>0.05</b>   | <b>0.22</b> | <b>0.00</b> | <b>116.88</b> | <b>116.88</b> | <b>0.01</b> | <b>0.00</b> | <b>117.10</b> |

### Mitigated Construction

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| 2014         | 0.12        | 0.62        | 0.75        | 0.00        | 0.55          | 0.05         | 0.59        | 0.05           | 0.05          | 0.10        | 0.00        | 116.88        | 116.88        | 0.01        | 0.00        | 117.10        |
| <b>Total</b> | <b>0.12</b> | <b>0.62</b> | <b>0.75</b> | <b>0.00</b> | <b>0.55</b>   | <b>0.05</b>  | <b>0.59</b> | <b>0.05</b>    | <b>0.05</b>   | <b>0.10</b> | <b>0.00</b> | <b>116.88</b> | <b>116.88</b> | <b>0.01</b> | <b>0.00</b> | <b>117.10</b> |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 2.2 Overall Operational

### Mitigated Operational

|              | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Area         | 60.70        | 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        |
| Energy       | 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        |
| Mobile       | 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        |
| Waste        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Water        |              |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b> | <b>60.70</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.12        | 0.90        | 0.50        | 0.00        |               | 0.05         | 0.05        |                | 0.05          | 0.05        | 0.00        | 107.58        | 107.58        | 0.01        | 0.00        | 107.80        |
| <b>Total</b> | <b>0.12</b> | <b>0.90</b> | <b>0.50</b> | <b>0.00</b> |               | <b>0.05</b>  | <b>0.05</b> |                | <b>0.05</b>   | <b>0.05</b> | <b>0.00</b> | <b>107.58</b> | <b>107.58</b> | <b>0.01</b> | <b>0.00</b> | <b>107.80</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.27          | 0.00         | 0.27        | 0.03           | 0.00          | 0.03        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.13          | 0.00         | 0.14        | 0.01           | 0.00          | 0.01        | 0.00        | 3.10        | 3.10        | 0.00        | 0.00        | 3.10        |
| Worker       | 0.01        | 0.01        | 0.08        | 0.00        | 1.34          | 0.00         | 1.34        | 0.13           | 0.00          | 0.13        | 0.00        | 6.04        | 6.04        | 0.00        | 0.00        | 6.05        |
| <b>Total</b> | <b>0.01</b> | <b>0.03</b> | <b>0.09</b> | <b>0.00</b> | <b>1.74</b>   | <b>0.00</b>  | <b>1.75</b> | <b>0.17</b>    | <b>0.00</b>   | <b>0.17</b> | <b>0.00</b> | <b>9.29</b> | <b>9.29</b> | <b>0.00</b> | <b>0.00</b> | <b>9.30</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Off-Road     | 0.10        | 0.59        | 0.65        | 0.00        |               | 0.04         | 0.04        |                | 0.04          | 0.04        | 0.00        | 107.58        | 107.58        | 0.01        | 0.00        | 107.80        |
| <b>Total</b> | <b>0.10</b> | <b>0.59</b> | <b>0.65</b> | <b>0.00</b> |               | <b>0.04</b>  | <b>0.04</b> |                | <b>0.04</b>   | <b>0.04</b> | <b>0.00</b> | <b>107.58</b> | <b>107.58</b> | <b>0.01</b> | <b>0.00</b> | <b>107.80</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category     | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Hauling      | 0.00        | 0.00        | 0.00        | 0.00        | 0.09          | 0.00         | 0.09        | 0.01           | 0.00          | 0.01        | 0.00        | 0.15        | 0.15        | 0.00        | 0.00        | 0.15        |
| Vendor       | 0.00        | 0.02        | 0.01        | 0.00        | 0.04          | 0.00         | 0.04        | 0.00           | 0.00          | 0.00        | 0.00        | 3.10        | 3.10        | 0.00        | 0.00        | 3.10        |
| Worker       | 0.01        | 0.01        | 0.08        | 0.00        | 0.42          | 0.00         | 0.42        | 0.04           | 0.00          | 0.04        | 0.00        | 6.04        | 6.04        | 0.00        | 0.00        | 6.05        |
| <b>Total</b> | <b>0.01</b> | <b>0.03</b> | <b>0.09</b> | <b>0.00</b> | <b>0.55</b>   | <b>0.00</b>  | <b>0.55</b> | <b>0.05</b>    | <b>0.00</b>   | <b>0.05</b> | <b>0.00</b> | <b>9.29</b> | <b>9.29</b> | <b>0.00</b> | <b>0.00</b> | <b>9.30</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Category    | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |      |
| Mitigated   | 0.00    | 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 |
| Unmitigated | 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 |
| Total       | NA      | NA   | NA   | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA   |

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                         | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|-------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category                | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Electricity Mitigated   |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| Electricity Unmitigated |           |           |           |           |               | 0.00         | 0.00       |                | 0.00          | 0.00        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |
| NaturalGas Mitigated    | 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      |
| NaturalGas Unmitigated  | 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      |
| <b>Total</b>            | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Land Use                | kBTU           | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| User Defined Industrial | 0              | 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        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 5.3 Energy by Land Use - Electricity

#### Mitigated

|                         | Electricity Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|-----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | kWh             | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0               |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                 |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | tons/yr   |           |           |           |               |              |            |                |               |             | MT/yr     |           |           |           |           |           |
| Mitigated    | 60.70     | 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      |
| Unmitigated  | 60.70     | 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      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr       |             |             |             |             |             |
| Architectural Coating | 6.44         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Consumer Products     | 54.27        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| Landscaping           | 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        |
| <b>Total</b>          | <b>60.71</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 7.2 Water by Land Use

### Unmitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 7.2 Water by Land Use

### Mitigated

|                         | Indoor/Outdoor Use | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|--------------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | Mgal               | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0 / 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                    |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Mitigated

|                         | Waste Disposed | ROG     | NOx | CO | SO2 | Total CO2   | CH4         | N2O         | CO2e        |
|-------------------------|----------------|---------|-----|----|-----|-------------|-------------|-------------|-------------|
| Land Use                | tons           | tons/yr |     |    |     | MT/yr       |             |             |             |
| User Defined Industrial | 0              |         |     |    |     | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                |         |     |    |     | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 9.0 Vegetation

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ATTACHMENT S

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODELS:

“CALEEMOD SEVILLE – SUBSTATION CONSTRUC LARGE PRJ V03.xls”

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ATTACHMENT S-1

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL “REMARKS”

MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUCT LARGE PRJ V03.xls”

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## “Remarks” for Seville Solar Farm Complex CalEEMod Models

“Remarks” are typically used in CalEEMod to explain non-default inputs. For the current modeling this document replaces the “remarks” section of the referenced CalEEMod model to provide more space to both identify non-default inputs and to explain how CalEEMod is used to calculate emissions for the current project. When defaults were retained and no further explanation was necessary, no “remarks” are recorded below.

### **Model Title: Seville – Substation Construction** **CalEEMod Seville – Substation Construction Large Prj V03.xls**

#### **Project Characteristics Tab**

- **Project Characteristics** –Imperial County; Rural; Operational Year 2014; Utility Company IID

#### **Land Use Tab**

- **Land Use** - This model calculates the emissions from equipment and traffic associated with the construction of a portion of the electrical substation for the Seville Solar Farm Complex. The ‘User Defined Industrial’ land use subtype represents the Seville Solar Farm. For this model in particular the ‘User Defined Industrial’ ‘Lot Acreage’ is the acreage associated with a less than one acre portion of the electrical substation for which each of the five Seville Solar Farm lots would construct. ‘Lot Acreage’ for this portion of the substation for the Seville Solar Farm “Large Project” Lot totals to 1 acre.

#### **Construction Tabs**

- **Construction Phase** - This model calculates the emissions from the substation construction (building construction) equipment, and the worker, vendor and haul traffic associated with construction of the 1-acre portion of the substation. All other phases except building construction are deleted.
  - o Building Construction - 5/1/2014 – 8/31/2014
- **Off-road Equipment (Building Construction)** – Substation construction equipment emissions are calculated in this model. Default equipment is altered to reflect the equipment below.

| <b>Equipment Type</b>              | <b>Amount</b> | <b>Daily Usage (Hours)</b> |
|------------------------------------|---------------|----------------------------|
| Aerial Lifts                       | 2             | 6                          |
| Cranes                             | 1             | 6                          |
| Other General Industrial Equipment | 1             | 8                          |
| Tractor/Loader/Backhoe             | 1             | 6                          |

- **Trips and VMT** – Only substation construction trips and VMT emissions are calculated in this model. Substation construction requires 10 worker and 4 haul trips/day.
- **On-road Fugitive Dust** –Traffic is expected to access the project area via State Highway 78 (a paved state highway) and a new, private access road from the north off of State Highway 78 on the property (unpaved but stabilized road). Approximately 0.8 miles of unpaved roads would be traveled by traffic accessing the substation area.
  - o CalEEMod default worker trip length= 10.2 miles
    - % Paved Worker = 1-(0.8 miles unpaved roads to Project / 10.2 miles)=92.2% paved
  - o CalEEMod default vendor trip length= 11.9 miles
    - % Paved Vendor= 1-(0.8 miles unpaved roads to Project / 11.9 miles)=93.3% paved
  - o CalEEMod default haul trip length= 20 miles
    - % Paved Haul= 1-(0.8 miles unpaved roads to Project / 20 miles)=96% paved
- **Demolition** - Demolition emissions are calculated in a separate CalEEMod Model.
- **Dust from Material Movement** - Grading fugitive dust emissions are not calculated in CalEEMod. Grading fugitive dust emissions are calculated using AP-42 emission factors (see Supplemental Project Description and Attachment V).

- **Architectural Coating** - No coating is required for this project (see Supplemental Project Description).

### Operational Tabs

- **Vehicle Trips** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Vehicle Emission Factors** – Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Road Dust** - Operations - Mobile emissions are calculated in a separate CalEEMod Model
- **Woodstoves** - Operations – Area - Each solar project is expected to have a small, regular, on site staff. The project operations calculated with CalEEMod consist of the on-site emissions from the operations/maintenance building. There will also be operational emissions that are associated with worker trips/day; vendor trips/day; and haul trips/day; water truck used during panel washing; outdoor water use during panel washing; and water/wastewater consumption emissions which are all calculated using CalEEMod. Operational on-site fugitive dust and electrical energy emissions will be calculated using AP-42 and CalEEMod emissions factors, respectfully (see Supplemental Project Description).
- **Consumer Products** - Operations - Area - See response in “Woodstoves” tab above.
- **Area Coating** - Operations - Area - See response in “Woodstoves” tab above.
- **Landscape Equipment** - Operations - Area - See response in “Woodstoves” tab above.
- **Energy Use** - Operations –Annual electrical energy use emissions are calculated using the CalEEMod intensity factor for the Imperial Irrigation District (IID).
- **Water And Wastewater** - Operations - Water and Wastewater - See response in “Woodstoves” tab above.
- **Solid Waste** - Operations - Solid Waste - See response in “Woodstoves” tab above.

### Vegetation Tabs

- **Land Use Change** – N/A
- **Sequestration** – N/A

### Mitigation Tabs

- **Construction Off-road Equipment Mitigation** - On-site watering will occur 3 times a day (unpaved roads); all equipment is Tier 3; reduced speed on unpaved roads (25 mph).
- **Mobile Land Use Mitigation** – N/A
- **Mobile Commute Mitigation** – N/A
- **Area Mitigation** – N/A
- **Energy Mitigation** – N/A
- **Water Mitigation** – N/A
- **Waste Mitigation** - N/A

ATTACHMENT S-2

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC LARGE PRJ V03.xls”

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**Seville Solar Farm - Substation Construction**  
**Imperial County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 1    | User Defined Unit |

### 1.2 Other Project Characteristics

|              |       |                           |     |                 |                              |
|--------------|-------|---------------------------|-----|-----------------|------------------------------|
| Urbanization | Rural | Wind Speed (m/s)          | 3.4 | Utility Company | Imperial Irrigation District |
| Climate Zone | 15    | Precipitation Freq (Days) | 12  |                 |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 2.64   | 17.09 | 11.53 | 0.02 | 16.62         | 0.95         | 17.57      | 1.64           | 0.95          | 2.60        | 0.00     | 2,070.46  | 0.00      | 0.23 | 0.00 | 2,075.35 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.03   | 10.38 | 12.96 | 0.02 | 5.27          | 0.83         | 6.09       | 0.51           | 0.83          | 1.34        | 0.00     | 2,070.46  | 0.00      | 0.23 | 0.00 | 2,075.35 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 2.51        | 16.95        | 10.34        | 0.02        |               | 0.95         | 0.95        |                | 0.95          | 0.95        |          | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>2.51</b> | <b>16.95</b> | <b>10.34</b> | <b>0.02</b> |               | <b>0.95</b>  | <b>0.95</b> |                | <b>0.95</b>   | <b>0.95</b> |          | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 4.80          | 0.00         | 4.80         | 0.47           | 0.00          | 0.47        |          | 3.23         |           | 0.00        |     | 3.23         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.13        | 0.12        | 1.18        | 0.00        | 11.82         | 0.00         | 11.83        | 1.17           | 0.00          | 1.18        |          | 84.71        |           | 0.01        |     | 84.89        |
| <b>Total</b> | <b>0.13</b> | <b>0.14</b> | <b>1.19</b> | <b>0.00</b> | <b>16.62</b>  | <b>0.00</b>  | <b>16.63</b> | <b>1.64</b>    | <b>0.00</b>   | <b>1.65</b> |          | <b>87.94</b> |           | <b>0.01</b> |     | <b>88.12</b> |

### 3.2 Building Construction - 2014

#### Mitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day      |                 |           |             |     |                 |
| Off-Road     | 1.90        | 10.24        | 11.77        | 0.02        |               | 0.82         | 0.82        |                | 0.82          | 0.82        | 0.00        | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>1.90</b> | <b>10.24</b> | <b>11.77</b> | <b>0.02</b> |               | <b>0.82</b>  | <b>0.82</b> |                | <b>0.82</b>   | <b>0.82</b> | <b>0.00</b> | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Mitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 1.54          | 0.00         | 1.54        | 0.14           | 0.00          | 0.15        |          | 3.23         |           | 0.00        |     | 3.23         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.13        | 0.12        | 1.18        | 0.00        | 3.72          | 0.00         | 3.73        | 0.36           | 0.00          | 0.37        |          | 84.71        |           | 0.01        |     | 84.89        |
| <b>Total</b> | <b>0.13</b> | <b>0.14</b> | <b>1.19</b> | <b>0.00</b> | <b>5.26</b>   | <b>0.00</b>  | <b>5.27</b> | <b>0.50</b>    | <b>0.00</b>   | <b>0.52</b> |          | <b>87.94</b> |           | <b>0.01</b> |     | <b>88.12</b> |

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
|                         | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| User Defined Industrial | 0.00                    | 0.00     | 0.00   |             |            |
| Total                   | 0.00                    | 0.00     | 0.00   |             |            |

## 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %     |            |             |
|-------------------------|------------|------------|-------------|------------|------------|-------------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW |
| User Defined Industrial | 16.40      | 9.50       | 11.90       | 0.00       | 0.00       | 0.00        |

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

|                        | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|------------------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category               | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| NaturalGas Mitigated   | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| NaturalGas Unmitigated | 0.00      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      | 0.00      | 0.00      |
| <b>Total</b>           | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

|                         | NaturalGas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O         | CO2e        |
|-------------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-------------|-------------|
| Land Use                | kBTU           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |             |             |
| User Defined Industrial | 0              | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| <b>Total</b>            |                | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

|              | ROG       | NOx       | CO        | SO2       | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2  | NBio- CO2 | Total CO2 | CH4       | N2O       | CO2e      |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category     | lb/day    |           |           |           |               |              |            |                |               |             | lb/day    |           |           |           |           |           |
| Mitigated    | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| Unmitigated  | 1.04      | 0.00      | 0.00      | 0.00      |               | 0.00         | 0.00       |                | 0.00          | 0.00        |           | 0.00      |           | 0.00      |           | 0.00      |
| <b>Total</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b>     | <b>NA</b>    | <b>NA</b>  | <b>NA</b>      | <b>NA</b>     | <b>NA</b>   | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> | <b>NA</b> |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

### Mitigated

|                       | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2 | CH4         | N2O | CO2e        |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-----------|-------------|-----|-------------|
| SubCategory           | lb/day      |             |             |             |               |              |             |                |               |             | lb/day   |             |           |             |     |             |
| Architectural Coating | 0.11        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Consumer Products     | 0.93        |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          |             |           |             |     | 0.00        |
| Landscaping           | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |     | 0.00        |
| <b>Total</b>          | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |               | <b>0.00</b>  | <b>0.00</b> |                | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> |     | <b>0.00</b> |

## 7.0 Water Detail

## **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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ATTACHMENT S-3

SEVILLE SOLAR FARM COMPLEX

SEVILLE SOLAR FARM “LARGE PROJECT”

CalEEMod MODEL OUTPUTS - WINTER  
MODEL “CALEEMOD SEVILLE – SUBSTATION CONSTRUC LARGE PRJ V03.xls”

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**Seville Solar Farm - Substation Construction**  
**Imperial County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses               | Size | Metric            |
|-------------------------|------|-------------------|
| User Defined Industrial | 1    | User Defined Unit |

### 1.2 Other Project Characteristics

|                     |       |                                  |     |                        |                              |
|---------------------|-------|----------------------------------|-----|------------------------|------------------------------|
| <b>Urbanization</b> | Rural | <b>Wind Speed (m/s)</b>          | 3.4 | <b>Utility Company</b> | Imperial Irrigation District |
| <b>Climate Zone</b> | 15    | <b>Precipitation Freq (Days)</b> | 12  |                        |                              |

### 1.3 User Entered Comments

Project Characteristics -

Land Use - See "Remarks" Summary Attachment

Construction Phase - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Off-road Equipment - See "Remarks" Summary Attachment

Trips and VMT - See "Remarks" Summary Attachment

On-road Fugitive Dust - See "Remarks" Summary Attachment

Demolition - See "Remarks" Summary Attachment  
Grading - See "Remarks" Summary Attachment  
Architectural Coating - See "Remarks" Summary Attachment  
Vehicle Trips - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Vehicle Emission Factors - See "Remarks" Summary Attachment  
Road Dust - See "Remarks" Summary Attachment  
Woodstoves - See "Remarks" Summary Attachment  
Consumer Products - See "Remarks" Summary Attachment  
Area Coating - See "Remarks" Summary Attachment  
Landscape Equipment - See "Remarks" Summary Attachment  
Energy Use - See "Remarks" Summary Attachment  
Water And Wastewater - See "Remarks" Summary Attachment  
Solid Waste - See "Remarks" Summary Attachment  
Land Use Change - See "Remarks" Summary Attachment  
Sequestration - See "Remarks" Summary Attachment  
Construction Off-road Equipment Mitigation - See "Remarks" Summary Attachment

## **2.0 Emissions Summary**

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## 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   |           |           |      |      |          |
| 2014  | 2.62   | 17.09 | 11.34 | 0.02 | 16.62         | 0.95         | 17.57      | 1.64           | 0.95          | 2.60        | 0.00     | 2,065.89  | 0.00      | 0.23 | 0.00 | 2,070.76 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

### 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   |           |           |      |      |          |
| 2014  | 2.01   | 10.38 | 12.77 | 0.02 | 5.27          | 0.83         | 6.09       | 0.51           | 0.83          | 1.34        | 0.00     | 2,065.89  | 0.00      | 0.23 | 0.00 | 2,070.76 |
| Total | NA     | NA    | NA    | NA   | NA            | NA           | NA         | NA             | NA            | NA          | NA       | NA        | NA        | NA   | NA   | NA       |

## 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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</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         | 1.04        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        |             | 0.00        |
| Energy       | 0.00        | 0.00        | 0.00        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        |          | 0.00        |           | 0.00        | 0.00        | 0.00        |
| Mobile       | 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        |
| <b>Total</b> | <b>1.04</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> |          | <b>0.00</b> |           | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Building Construction - 2014

#### Unmitigated Construction On-Site

|              | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2 | CH4         | N2O | CO2e            |
|--------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------|-------------|-----|-----------------|
| Category     | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |           |             |     |                 |
| Off-Road     | 2.51        | 16.95        | 10.34        | 0.02        |               | 0.95         | 0.95        |                | 0.95          | 0.95        |          | 1,982.52        |           | 0.22        |     | 1,987.23        |
| <b>Total</b> | <b>2.51</b> | <b>16.95</b> | <b>10.34</b> | <b>0.02</b> |               | <b>0.95</b>  | <b>0.95</b> |                | <b>0.95</b>   | <b>0.95</b> |          | <b>1,982.52</b> |           | <b>0.22</b> |     | <b>1,987.23</b> |

#### Unmitigated Construction Off-Site

|              | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2    | Total CO2 | CH4         | N2O | CO2e         |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|--------------|-----------|-------------|-----|--------------|
| Category     | lb/day      |             |             |             |               |              |              |                |               |             | lb/day   |              |           |             |     |              |
| Hauling      | 0.00        | 0.02        | 0.01        | 0.00        | 4.80          | 0.00         | 4.80         | 0.47           | 0.00          | 0.47        |          | 3.21         |           | 0.00        |     | 3.21         |
| Vendor       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00        |          | 0.00         |           | 0.00        |     | 0.00         |
| Worker       | 0.10        | 0.12        | 0.99        | 0.00        | 11.82         | 0.00         | 11.83        | 1.17           | 0.00          | 1.18        |          | 80.16        |           | 0.01        |     | 80.32        |
| <b>Total</b> | <b>0.10</b> | <b>0.14</b> | <b>1.00</b> | <b>0.00</b> | <b>16.62</b>  | <b>0.00</b>  | <b>16.63</b> | <b>1.64</b>    | <b>0.00</b>   | <b>1.65</b> |          | <b>83.37</b> |           | <b>0.01</b> |     | <b>83.53</b> |