

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**Ceres Gateway - Full Build-Out**  
**Stanislaus County, Summer**

Appendix A-2

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                            | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|--------|----------|-------------|--------------------|------------|
| Fast Food Restaurant with Drive Thru | 4.53   | 1000sqft | 0.91        | 4,529.00           | 0          |
| Fast Food Restaurant with Drive Thru | 2.42   | 1000sqft | 1.11        | 2,418.00           | 0          |
| Fast Food Restaurant with Drive Thru | 3.97   | 1000sqft | 1.20        | 3,974.00           | 0          |
| Fast Food Restaurant with Drive Thru | 2.15   | 1000sqft | 1.47        | 2,155.00           | 0          |
| High Turnover (Sit Down Restaurant)  | 2.03   | 1000sqft | 0.00        | 2,027.00           | 0          |
| Strip Mall                           | 6.69   | 1000sqft | 0.00        | 6,690.00           | 0          |
| Fast Food Restaurant with Drive Thru | 2.60   | 1000sqft | 0.62        | 2,600.00           | 0          |
| Fast Food Restaurant with Drive Thru | 2.51   | 1000sqft | 0.91        | 2,512.00           | 0          |
| Strip Mall                           | 1.50   | 1000sqft | 0.00        | 1,500.00           | 0          |
| Convenience Market With Gas Pumps    | 6.44   | 1000sqft | 1.86        | 6,437.00           | 0          |
| Parking Lot                          | 572.00 | Space    | 0.00        | 0.00               | 0          |
| Hotel                                | 80.00  | Room     | 2.29        | 64,000.00          | 0          |
| Strip Mall                           | 7.50   | 1000sqft | 1.05        | 7,500.00           | 0          |
| Strip Mall                           | 7.80   | 1000sqft | 0.75        | 7,800.00           | 0          |
| Strip Mall                           | 11.40  | 1000sqft | 1.42        | 11,400.00          | 0          |

**1.2 Other Project Characteristics**

|                        |                             |                         |     |                                  |      |
|------------------------|-----------------------------|-------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>    | Urban                       | <b>Wind Speed (m/s)</b> | 2.2 | <b>Precipitation Freq (Days)</b> | 46   |
| <b>Climate Zone</b>    | 3                           |                         |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b> | Turlock Irrigation District |                         |     |                                  |      |

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CO2 Intensity (lb/MW hr) 790 CH4 Intensity (lb/MW hr) 0.029 N2O Intensity (lb/MW hr) 0.006

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

Project Characteristics - Total project area is 13.66 acres per project Site Plan. Total acreage includes a Freestanding Pylon Sign on 0.07 acres (Parcel 8).

Land Use - Parking lot acreage included all uses (572 parking spaces). Does not include freestanding pylon sign on 0.07 acres (Parcel 8). Lot acreage for High Turnover Restaurant and Strip Mall (2,027 sq.ft. and 6,690 sq. ft.) is included in the 1.47 acres. Lot acreage for Strip Mall (1,500 sq. ft.) is included in the 0.91 acres. Parking lot includes 305 parking spaces - acreage included in each associated land use type.

Construction Phase - No demolition necessary as the site is vacant and undeveloped. Construction values are set to default.

Vehicle Trips - Trip rates based on Trip Generation Analysis by Fehr & Peers, July 2019.

Energy Use -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

| Table Name | Column Name       | Default Value | New Value |
|------------|-------------------|---------------|-----------|
| tblLandUse | LandUseSquareFeet | 4,530.00      | 4,529.00  |
| tblLandUse | LandUseSquareFeet | 2,420.00      | 2,418.00  |
| tblLandUse | LandUseSquareFeet | 3,970.00      | 3,974.00  |
| tblLandUse | LandUseSquareFeet | 2,150.00      | 2,155.00  |
| tblLandUse | LandUseSquareFeet | 2,030.00      | 2,027.00  |
| tblLandUse | LandUseSquareFeet | 2,510.00      | 2,512.00  |
| tblLandUse | LandUseSquareFeet | 6,440.00      | 6,437.00  |
| tblLandUse | LandUseSquareFeet | 228,800.00    | 0.00      |
| tblLandUse | LandUseSquareFeet | 116,160.00    | 64,000.00 |
| tblLandUse | LotAcreage        | 0.10          | 0.91      |
| tblLandUse | LotAcreage        | 0.06          | 1.11      |

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|                 |            |          |        |
|-----------------|------------|----------|--------|
| tblLandUse      | LotAcreage | 0.09     | 1.20   |
| tblLandUse      | LotAcreage | 0.05     | 1.47   |
| tblLandUse      | LotAcreage | 0.05     | 0.00   |
| tblLandUse      | LotAcreage | 0.15     | 0.00   |
| tblLandUse      | LotAcreage | 0.06     | 0.62   |
| tblLandUse      | LotAcreage | 0.06     | 0.91   |
| tblLandUse      | LotAcreage | 0.03     | 0.00   |
| tblLandUse      | LotAcreage | 0.15     | 1.86   |
| tblLandUse      | LotAcreage | 5.15     | 0.00   |
| tblLandUse      | LotAcreage | 2.67     | 2.29   |
| tblLandUse      | LotAcreage | 0.17     | 1.05   |
| tblLandUse      | LotAcreage | 0.18     | 0.75   |
| tblLandUse      | LotAcreage | 0.26     | 1.42   |
| tblVehicleTrips | ST_TR      | 1,448.33 | 837.58 |
| tblVehicleTrips | ST_TR      | 722.03   | 470.95 |
| tblVehicleTrips | ST_TR      | 42.04    | 37.75  |
| tblVehicleTrips | ST_TR      | 8.19     | 4.09   |
| tblVehicleTrips | SU_TR      | 1,182.08 | 837.58 |
| tblVehicleTrips | SU_TR      | 542.72   | 470.95 |
| tblVehicleTrips | SU_TR      | 20.43    | 37.75  |
| tblVehicleTrips | SU_TR      | 5.95     | 4.09   |
| tblVehicleTrips | WD_TR      | 845.60   | 837.58 |
| tblVehicleTrips | WD_TR      | 496.12   | 470.95 |
| tblVehicleTrips | WD_TR      | 44.32    | 37.75  |
| tblVehicleTrips | WD_TR      | 8.17     | 4.09   |

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG            | NOx             | CO              | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                 |                 |               |                |               |                |                |               |               | lb/day   |                    |                    |               |               |                    |
| Area         | 3.1717         | 6.7000e-004     | 0.0731          | 1.0000e-005   |                | 2.6000e-004   | 2.6000e-004    |                | 2.6000e-004   | 2.6000e-004   |          | 0.1562             | 0.1562             | 4.1000e-004   |               | 0.1665             |
| Energy       | 0.1863         | 1.6936          | 1.4227          | 0.0102        |                | 0.1287        | 0.1287         |                | 0.1287        | 0.1287        |          | 2,032.3736         | 2,032.3736         | 0.0390        | 0.0373        | 2,044.4510         |
| Mobile       | 30.3327        | 203.0209        | 171.8798        | 0.6250        | 29.8745        | 0.5477        | 30.4222        | 8.0168         | 0.5162        | 8.5329        |          | 63,938.8912        | 63,938.8912        | 7.1563        |               | 64,117.7991        |
| <b>Total</b> | <b>33.6907</b> | <b>204.7152</b> | <b>173.3756</b> | <b>0.6352</b> | <b>29.8745</b> | <b>0.6767</b> | <b>30.5512</b> | <b>8.0168</b>  | <b>0.6451</b> | <b>8.6619</b> |          | <b>65,971.4210</b> | <b>65,971.4210</b> | <b>7.1957</b> | <b>0.0373</b> | <b>66,162.4166</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         | 3.1717         | 6.7000e-004     | 0.0731          | 1.0000e-005   |                | 2.6000e-004   | 2.6000e-004    |                | 2.6000e-004   | 2.6000e-004   |          | 0.1562             | 0.1562             | 4.1000e-004   |               | 0.1665             |
| Energy       | 0.1863         | 1.6936          | 1.4227          | 0.0102        |                | 0.1287        | 0.1287         |                | 0.1287        | 0.1287        |          | 2,032.3736         | 2,032.3736         | 0.0390        | 0.0373        | 2,044.4510         |
| Mobile       | 30.3327        | 203.0209        | 171.8798        | 0.6250        | 29.8745        | 0.5477        | 30.4222        | 8.0168         | 0.5162        | 8.5329        |          | 63,938.8912        | 63,938.8912        | 7.1563        |               | 64,117.7991        |
| <b>Total</b> | <b>33.6907</b> | <b>204.7152</b> | <b>173.3756</b> | <b>0.6352</b> | <b>29.8745</b> | <b>0.6767</b> | <b>30.5512</b> | <b>8.0168</b>  | <b>0.6451</b> | <b>8.6619</b> |          | <b>65,971.4210</b> | <b>65,971.4210</b> | <b>7.1957</b> | <b>0.0373</b> | <b>66,162.4166</b> |

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

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation      | Site Preparation      | 3/1/2020   | 3/13/2020 | 5             | 10       |                   |
| 2            | Grading               | Grading               | 3/14/2020  | 4/24/2020 | 5             | 30       |                   |
| 3            | Building Construction | Building Construction | 4/25/2020  | 6/18/2021 | 5             | 300      |                   |
| 4            | Paving                | Paving                | 6/19/2021  | 7/16/2021 | 5             | 20       |                   |
| 5            | Architectural Coating | Architectural Coating | 7/17/2021  | 8/13/2021 | 5             | 20       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 188,313; Non-Residential Outdoor: 62,771; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

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

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 49.00              | 21.00              | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

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**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.0765        | 42.4173        | 21.5136        | 0.0380        |                | 2.1974        | 2.1974         |                | 2.0216        | 2.0216         |          | 3,685.1016        | 3,685.1016        | 1.1918        |     | 3,714.8975        |
| <b>Total</b>  | <b>4.0765</b> | <b>42.4173</b> | <b>21.5136</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.1974</b> | <b>20.2637</b> | <b>9.9307</b>  | <b>2.0216</b> | <b>11.9523</b> |          | <b>3,685.1016</b> | <b>3,685.1016</b> | <b>1.1918</b> |     | <b>3,714.8975</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0916        | 0.0504        | 0.6685        | 1.6100e-003        | 0.1479        | 1.1000e-003        | 0.1490        | 0.0392         | 1.0200e-003        | 0.0402        |          | 159.7949        | 159.7949        | 5.0600e-003        |     | 159.9215        |
| <b>Total</b> | <b>0.0916</b> | <b>0.0504</b> | <b>0.6685</b> | <b>1.6100e-003</b> | <b>0.1479</b> | <b>1.1000e-003</b> | <b>0.1490</b> | <b>0.0392</b>  | <b>1.0200e-003</b> | <b>0.0402</b> |          | <b>159.7949</b> | <b>159.7949</b> | <b>5.0600e-003</b> |     | <b>159.9215</b> |



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**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |                |               |                |                |               |                | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.0765        | 42.4173        | 21.5136        | 0.0380        |                | 2.1974        | 2.1974         |                | 2.0216        | 2.0216         | 0.0000        | 3,685.1016        | 3,685.1016        | 1.1918        |     | 3,714.8975        |
| <b>Total</b>  | <b>4.0765</b> | <b>42.4173</b> | <b>21.5136</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.1974</b> | <b>20.2637</b> | <b>9.9307</b>  | <b>2.0216</b> | <b>11.9523</b> | <b>0.0000</b> | <b>3,685.1016</b> | <b>3,685.1016</b> | <b>1.1918</b> |     | <b>3,714.8975</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0916        | 0.0504        | 0.6685        | 1.6100e-003        | 0.1479        | 1.1000e-003        | 0.1490        | 0.0392         | 1.0200e-003        | 0.0402        |          | 159.7949        | 159.7949        | 5.0600e-003        |     | 159.9215        |
| <b>Total</b> | <b>0.0916</b> | <b>0.0504</b> | <b>0.6685</b> | <b>1.6100e-003</b> | <b>0.1479</b> | <b>1.1000e-003</b> | <b>0.1490</b> | <b>0.0392</b>  | <b>1.0200e-003</b> | <b>0.0402</b> |          | <b>159.7949</b> | <b>159.7949</b> | <b>5.0600e-003</b> |     | <b>159.9215</b> |

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**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4501        | 50.1975        | 31.9583        | 0.0620        |               | 2.1739        | 2.1739         |                | 2.0000        | 2.0000        |          | 6,005.8653        | 6,005.8653        | 1.9424        |     | 6,054.4257        |
| <b>Total</b>  | <b>4.4501</b> | <b>50.1975</b> | <b>31.9583</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.1739</b> | <b>10.8472</b> | <b>3.5965</b>  | <b>2.0000</b> | <b>5.5965</b> |          | <b>6,005.8653</b> | <b>6,005.8653</b> | <b>1.9424</b> |     | <b>6,054.4257</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1018        | 0.0559        | 0.7428        | 1.7800e-003        | 0.1643        | 1.2300e-003        | 0.1655        | 0.0436         | 1.1300e-003        | 0.0447        |          | 177.5499        | 177.5499        | 5.6300e-003        |     | 177.6905        |
| <b>Total</b> | <b>0.1018</b> | <b>0.0559</b> | <b>0.7428</b> | <b>1.7800e-003</b> | <b>0.1643</b> | <b>1.2300e-003</b> | <b>0.1655</b> | <b>0.0436</b>  | <b>1.1300e-003</b> | <b>0.0447</b> |          | <b>177.5499</b> | <b>177.5499</b> | <b>5.6300e-003</b> |     | <b>177.6905</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.3 Grading - 2020**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 4.4501        | 50.1975        | 31.9583        | 0.0620        |               | 2.1739        | 2.1739         |                | 2.0000        | 2.0000        | 0.0000        | 6,005.865<br>3         | 6,005.865<br>3         | 1.9424        |     | 6,054.425<br>7         |
| <b>Total</b>  | <b>4.4501</b> | <b>50.1975</b> | <b>31.9583</b> | <b>0.0620</b> | <b>8.6733</b> | <b>2.1739</b> | <b>10.8472</b> | <b>3.5965</b>  | <b>2.0000</b> | <b>5.5965</b> | <b>0.0000</b> | <b>6,005.865<br/>3</b> | <b>6,005.865<br/>3</b> | <b>1.9424</b> |     | <b>6,054.425<br/>7</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1018        | 0.0559        | 0.7428        | 1.7800e-003        | 0.1643        | 1.2300e-003        | 0.1655        | 0.0436         | 1.1300e-003        | 0.0447        |          | 177.5499        | 177.5499        | 5.6300e-003        |     | 177.6905        |
| <b>Total</b> | <b>0.1018</b> | <b>0.0559</b> | <b>0.7428</b> | <b>1.7800e-003</b> | <b>0.1643</b> | <b>1.2300e-003</b> | <b>0.1655</b> | <b>0.0436</b>  | <b>1.1300e-003</b> | <b>0.0447</b> |          | <b>177.5499</b> | <b>177.5499</b> | <b>5.6300e-003</b> |     | <b>177.6905</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        |          | 2,553.0631        | 2,553.0631        | 0.6229        |     | 2,568.6345        |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> |          | <b>2,553.0631</b> | <b>2,553.0631</b> | <b>0.6229</b> |     | <b>2,568.6345</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0778        | 2.5313        | 0.4097        | 5.9800e-003   | 0.1421        | 0.0135        | 0.1556        | 0.0409         | 0.0129        | 0.0538        |          | 626.9130          | 626.9130          | 0.0497        |     | 628.1560          |
| Worker       | 0.2494        | 0.1371        | 1.8199        | 4.3700e-003   | 0.4025        | 3.0100e-003   | 0.4055        | 0.1068         | 2.7700e-003   | 0.1095        |          | 434.9972          | 434.9972          | 0.0138        |     | 435.3418          |
| <b>Total</b> | <b>0.3272</b> | <b>2.6684</b> | <b>2.2296</b> | <b>0.0104</b> | <b>0.5447</b> | <b>0.0165</b> | <b>0.5612</b> | <b>0.1477</b>  | <b>0.0157</b> | <b>0.1634</b> |          | <b>1,061.9102</b> | <b>1,061.9102</b> | <b>0.0635</b> |     | <b>1,063.4978</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.4 Building Construction - 2020**

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 2.1198        | 19.1860        | 16.8485        | 0.0269        |               | 1.1171        | 1.1171        |                | 1.0503        | 1.0503        | 0.0000        | 2,553.063<br>1         | 2,553.063<br>1         | 0.6229        |     | 2,568.634<br>5         |
| <b>Total</b> | <b>2.1198</b> | <b>19.1860</b> | <b>16.8485</b> | <b>0.0269</b> |               | <b>1.1171</b> | <b>1.1171</b> |                | <b>1.0503</b> | <b>1.0503</b> | <b>0.0000</b> | <b>2,553.063<br/>1</b> | <b>2,553.063<br/>1</b> | <b>0.6229</b> |     | <b>2,568.634<br/>5</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0778        | 2.5313        | 0.4097        | 5.9800e-003   | 0.1421        | 0.0135        | 0.1556        | 0.0409         | 0.0129        | 0.0538        |          | 626.9130               | 626.9130               | 0.0497        |     | 628.1560               |
| Worker       | 0.2494        | 0.1371        | 1.8199        | 4.3700e-003   | 0.4025        | 3.0100e-003   | 0.4055        | 0.1068         | 2.7700e-003   | 0.1095        |          | 434.9972               | 434.9972               | 0.0138        |     | 435.3418               |
| <b>Total</b> | <b>0.3272</b> | <b>2.6684</b> | <b>2.2296</b> | <b>0.0104</b> | <b>0.5447</b> | <b>0.0165</b> | <b>0.5612</b> | <b>0.1477</b>  | <b>0.0157</b> | <b>0.1634</b> |          | <b>1,061.910<br/>2</b> | <b>1,061.910<br/>2</b> | <b>0.0635</b> |     | <b>1,063.497<br/>8</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        |          | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0629        | 2.3047        | 0.3538        | 5.9200e-003   | 0.1421        | 6.1800e-003        | 0.1483        | 0.0409         | 5.9100e-003        | 0.0468        |          | 621.0291          | 621.0291          | 0.0480        |     | 622.2294          |
| Worker       | 0.2302        | 0.1222        | 1.6610        | 4.2300e-003   | 0.4025        | 2.9200e-003        | 0.4054        | 0.1068         | 2.6900e-003        | 0.1095        |          | 421.2358          | 421.2358          | 0.0124        |     | 421.5453          |
| <b>Total</b> | <b>0.2931</b> | <b>2.4269</b> | <b>2.0148</b> | <b>0.0102</b> | <b>0.5447</b> | <b>9.1000e-003</b> | <b>0.5538</b> | <b>0.1477</b>  | <b>8.6000e-003</b> | <b>0.1563</b> |          | <b>1,042.2649</b> | <b>1,042.2649</b> | <b>0.0604</b> |     | <b>1,043.7747</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0629        | 2.3047        | 0.3538        | 5.9200e-003   | 0.1421        | 6.1800e-003        | 0.1483        | 0.0409         | 5.9100e-003        | 0.0468        |          | 621.0291          | 621.0291          | 0.0480        |     | 622.2294          |
| Worker       | 0.2302        | 0.1222        | 1.6610        | 4.2300e-003   | 0.4025        | 2.9200e-003        | 0.4054        | 0.1068         | 2.6900e-003        | 0.1095        |          | 421.2358          | 421.2358          | 0.0124        |     | 421.5453          |
| <b>Total</b> | <b>0.2931</b> | <b>2.4269</b> | <b>2.0148</b> | <b>0.0102</b> | <b>0.5447</b> | <b>9.1000e-003</b> | <b>0.5538</b> | <b>0.1477</b>  | <b>8.6000e-003</b> | <b>0.1563</b> |          | <b>1,042.2649</b> | <b>1,042.2649</b> | <b>0.0604</b> |     | <b>1,043.7747</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        |          | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> |          | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0705        | 0.0374        | 0.5085        | 1.3000e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 128.9497        | 128.9497        | 3.7900e-003        |     | 129.0445        |
| <b>Total</b> | <b>0.0705</b> | <b>0.0374</b> | <b>0.5085</b> | <b>1.3000e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>128.9497</b> | <b>128.9497</b> | <b>3.7900e-003</b> |     | <b>129.0445</b> |



Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.5 Paving - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2556        | 12.9191        | 14.6532        | 0.0228        |               | 0.6777        | 0.6777        |                | 0.6235        | 0.6235        | 0.0000        | 2,207.2109        | 2,207.2109        | 0.7139        |     | 2,225.0573        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.2556</b> | <b>12.9191</b> | <b>14.6532</b> | <b>0.0228</b> |               | <b>0.6777</b> | <b>0.6777</b> |                | <b>0.6235</b> | <b>0.6235</b> | <b>0.0000</b> | <b>2,207.2109</b> | <b>2,207.2109</b> | <b>0.7139</b> |     | <b>2,225.0573</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0705        | 0.0374        | 0.5085        | 1.3000e-003        | 0.1232        | 8.9000e-004        | 0.1241        | 0.0327         | 8.2000e-004        | 0.0335        |          | 128.9497        | 128.9497        | 3.7900e-003        |     | 129.0445        |
| <b>Total</b> | <b>0.0705</b> | <b>0.0374</b> | <b>0.5085</b> | <b>1.3000e-003</b> | <b>0.1232</b> | <b>8.9000e-004</b> | <b>0.1241</b> | <b>0.0327</b>  | <b>8.2000e-004</b> | <b>0.0335</b> |          | <b>128.9497</b> | <b>128.9497</b> | <b>3.7900e-003</b> |     | <b>129.0445</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 87.2831        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>87.5020</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0470        | 0.0249        | 0.3390        | 8.6000e-004        | 0.0822        | 6.0000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 85.9665        | 85.9665        | 2.5300e-003        |     | 86.0297        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0249</b> | <b>0.3390</b> | <b>8.6000e-004</b> | <b>0.0822</b> | <b>6.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>85.9665</b> | <b>85.9665</b> | <b>2.5300e-003</b> |     | <b>86.0297</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**3.6 Architectural Coating - 2021**

**Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 87.2831        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189         | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>87.5020</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0470        | 0.0249        | 0.3390        | 8.6000e-004        | 0.0822        | 6.0000e-004        | 0.0827        | 0.0218         | 5.5000e-004        | 0.0223        |          | 85.9665        | 85.9665        | 2.5300e-003        |     | 86.0297        |
| <b>Total</b> | <b>0.0470</b> | <b>0.0249</b> | <b>0.3390</b> | <b>8.6000e-004</b> | <b>0.0822</b> | <b>6.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>5.5000e-004</b> | <b>0.0223</b> |          | <b>85.9665</b> | <b>85.9665</b> | <b>2.5300e-003</b> |     | <b>86.0297</b> |

**4.0 Operational Detail - Mobile**

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Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx      | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4    | N2O | CO2e            |
|-------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|-----|-----------------|
| Category    | lb/day  |          |          |        |               |              |            |                |               |             | lb/day   |                 |                 |        |     |                 |
| Mitigated   | 30.3327 | 203.0209 | 171.8798 | 0.6250 | 29.8745       | 0.5477       | 30.4222    | 8.0168         | 0.5162        | 8.5329      |          | 63,938.89<br>12 | 63,938.89<br>12 | 7.1563 |     | 64,117.79<br>91 |
| Unmitigated | 30.3327 | 203.0209 | 171.8798 | 0.6250 | 29.8745       | 0.5477       | 30.4222    | 8.0168         | 0.5162        | 8.5329      |          | 63,938.89<br>12 | 63,938.89<br>12 | 7.1563 |     | 64,117.799<br>1 |

**4.2 Trip Summary Information**

## Ceres Gateway - Full Build-Out - Stanislaus County, Summer

| Land Use                             | Average Daily Trip Rate |                  |                  | Unmitigated       | Mitigated         |
|--------------------------------------|-------------------------|------------------|------------------|-------------------|-------------------|
|                                      | Weekday                 | Saturday         | Sunday           | Annual VMT        | Annual VMT        |
| Convenience Market With Gas Pumps    | 5,394.02                | 5,394.02         | 5394.02          | 2,893,373         | 2,893,373         |
| Fast Food Restaurant with Drive Thru | 2,133.40                | 2,133.40         | 2133.40          | 1,993,292         | 1,993,292         |
| Fast Food Restaurant with Drive Thru | 1,139.70                | 1,139.70         | 1139.70          | 1,064,849         | 1,064,849         |
| Fast Food Restaurant with Drive Thru | 1,869.67                | 1,869.67         | 1869.67          | 1,746,881         | 1,746,881         |
| Fast Food Restaurant with Drive Thru | 1,012.54                | 1,012.54         | 1012.54          | 946,044           | 946,044           |
| Fast Food Restaurant with Drive Thru | 1,224.47                | 1,224.47         | 1224.47          | 1,144,053         | 1,144,053         |
| Fast Food Restaurant with Drive Thru | 1,182.08                | 1,182.08         | 1182.08          | 1,104,451         | 1,104,451         |
| High Turnover (Sit Down Restaurant)  | 258.11                  | 321.49           | 267.64           | 311,564           | 311,564           |
| Strip Mall                           | 252.55                  | 252.55           | 252.55           | 388,931           | 388,931           |
| Strip Mall                           | 56.63                   | 56.63            | 56.63            | 87,204            | 87,204            |
| Strip Mall                           | 283.13                  | 283.13           | 283.13           | 436,022           | 436,022           |
| Strip Mall                           | 294.45                  | 294.45           | 294.45           | 453,463           | 453,463           |
| Strip Mall                           | 430.35                  | 430.35           | 430.35           | 662,753           | 662,753           |
| Parking Lot                          | 0.00                    | 0.00             | 0.00             |                   |                   |
| Hotel                                | 327.20                  | 327.20           | 327.20           | 621,657           | 621,657           |
| <b>Total</b>                         | <b>15,858.30</b>        | <b>15,921.67</b> | <b>15,867.82</b> | <b>13,854,538</b> | <b>13,854,538</b> |

## 4.3 Trip Type Information

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

| Land Use                        | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                 | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Convenience Market With Gas     | 9.50       | 7.30       | 7.30        | 0.80       | 80.20      | 19.00       | 14             | 21       | 65      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| Fast Food Restaurant with Drive | 9.50       | 7.30       | 7.30        | 2.20       | 78.80      | 19.00       | 29             | 21       | 50      |
| High Turnover (Sit Down         | 9.50       | 7.30       | 7.30        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Strip Mall                      | 9.50       | 7.30       | 7.30        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |
| Strip Mall                      | 9.50       | 7.30       | 7.30        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |
| Strip Mall                      | 9.50       | 7.30       | 7.30        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |
| Strip Mall                      | 9.50       | 7.30       | 7.30        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |
| Strip Mall                      | 9.50       | 7.30       | 7.30        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |
| Parking Lot                     | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Hotel                           | 9.50       | 7.30       | 7.30        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |

4.4 Fleet Mix

| Land Use                             | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Convenience Market With Gas Pumps    | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |
| Fast Food Restaurant with Drive Thru | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |
| High Turnover (Sit Down Restaurant)  | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |
| Strip Mall                           | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |
| Parking Lot                          | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |
| Hotel                                | 0.509246 | 0.034164 | 0.173036 | 0.129334 | 0.024846 | 0.005682 | 0.027468 | 0.086660 | 0.001831 | 0.001147 | 0.004743 | 0.000856 | 0.000987 |

5.0 Energy Detail

Historical Energy Use: N

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**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   | 0.1863 | 1.6936 | 1.4227 | 0.0102 |               | 0.1287       | 0.1287     |                | 0.1287        | 0.1287      |          | 2,032.3736 | 2,032.3736 | 0.0390 | 0.0373 | 2,044.4510 |
| NaturalGas Unmitigated | 0.1863 | 1.6936 | 1.4227 | 0.0102 |               | 0.1287       | 0.1287     |                | 0.1287        | 0.1287      |          | 2,032.3736 | 2,032.3736 | 0.0390 | 0.0373 | 2,044.4510 |

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Convenience Market With Gas Pumps    | 188.701         | 2.0400e-003   | 0.0185        | 0.0155        | 1.1000e-004   |               | 1.4100e-003   | 1.4100e-003   |                | 1.4100e-003   | 1.4100e-003   |          | 22.2001           | 22.2001           | 4.3000e-004   | 4.1000e-004   | 22.3321           |
| Fast Food Restaurant with Drive Thru | 1242.34         | 0.0134        | 0.1218        | 0.1023        | 7.3000e-004   |               | 9.2600e-003   | 9.2600e-003   |                | 9.2600e-003   | 9.2600e-003   |          | 146.1580          | 146.1580          | 2.8000e-003   | 2.6800e-003   | 147.0265          |
| Fast Food Restaurant with Drive Thru | 1393.96         | 0.0150        | 0.1367        | 0.1148        | 8.2000e-004   |               | 0.0104        | 0.0104        |                | 0.0104        | 0.0104        |          | 163.9954          | 163.9954          | 3.1400e-003   | 3.0100e-003   | 164.9699          |
| Fast Food Restaurant with Drive Thru | 1448.15         | 0.0156        | 0.1420        | 0.1193        | 8.5000e-004   |               | 0.0108        | 0.0108        |                | 0.0108        | 0.0108        |          | 170.3707          | 170.3707          | 3.2700e-003   | 3.1200e-003   | 171.3831          |
| Fast Food Restaurant with Drive Thru | 1498.88         | 0.0162        | 0.1470        | 0.1234        | 8.8000e-004   |               | 0.0112        | 0.0112        |                | 0.0112        | 0.0112        |          | 176.3391          | 176.3391          | 3.3800e-003   | 3.2300e-003   | 177.3870          |
| Fast Food Restaurant with Drive Thru | 2290.98         | 0.0247        | 0.2246        | 0.1887        | 1.3500e-003   |               | 0.0171        | 0.0171        |                | 0.0171        | 0.0171        |          | 269.5275          | 269.5275          | 5.1700e-003   | 4.9400e-003   | 271.1292          |
| Fast Food Restaurant with Drive Thru | 2610.94         | 0.0282        | 0.2560        | 0.2150        | 1.5400e-003   |               | 0.0195        | 0.0195        |                | 0.0195        | 0.0195        |          | 307.1691          | 307.1691          | 5.8900e-003   | 5.6300e-003   | 308.9945          |
| High Turnover (Sit Down Restaurant)  | 1168.55         | 0.0126        | 0.1146        | 0.0962        | 6.9000e-004   |               | 8.7100e-003   | 8.7100e-003   |                | 8.7100e-003   | 8.7100e-003   |          | 137.4767          | 137.4767          | 2.6300e-003   | 2.5200e-003   | 138.2936          |
| Hotel                                | 4409.86         | 0.0476        | 0.4323        | 0.3632        | 2.5900e-003   |               | 0.0329        | 0.0329        |                | 0.0329        | 0.0329        |          | 518.8074          | 518.8074          | 9.9400e-003   | 9.5100e-003   | 521.8904          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                           | 196.118         | 2.1100e-003   | 0.0192        | 0.0162        | 1.2000e-004   |               | 1.4600e-003   | 1.4600e-003   |                | 1.4600e-003   | 1.4600e-003   |          | 23.0727           | 23.0727           | 4.4000e-004   | 4.2000e-004   | 23.2098           |
| Strip Mall                           | 219.863         | 2.3700e-003   | 0.0216        | 0.0181        | 1.3000e-004   |               | 1.6400e-003   | 1.6400e-003   |                | 1.6400e-003   | 1.6400e-003   |          | 25.8662           | 25.8662           | 5.0000e-004   | 4.7000e-004   | 26.0200           |
| Strip Mall                           | 228.658         | 2.4700e-003   | 0.0224        | 0.0188        | 1.3000e-004   |               | 1.7000e-003   | 1.7000e-003   |                | 1.7000e-003   | 1.7000e-003   |          | 26.9009           | 26.9009           | 5.2000e-004   | 4.9000e-004   | 27.0607           |
| Strip Mall                           | 334.192         | 3.6000e-003   | 0.0328        | 0.0275        | 2.0000e-004   |               | 2.4900e-003   | 2.4900e-003   |                | 2.4900e-003   | 2.4900e-003   |          | 39.3167           | 39.3167           | 7.5000e-004   | 7.2000e-004   | 39.5503           |
| Strip Mall                           | 43.9726         | 4.7000e-004   | 4.3100e-003   | 3.6200e-003   | 3.0000e-005   |               | 3.3000e-004   | 3.3000e-004   |                | 3.3000e-004   | 3.3000e-004   |          | 5.1733            | 5.1733            | 1.0000e-004   | 9.0000e-005   | 5.2040            |
| <b>Total</b>                         |                 | <b>0.1863</b> | <b>1.6937</b> | <b>1.4227</b> | <b>0.0102</b> |               | <b>0.1287</b> | <b>0.1287</b> |                | <b>0.1287</b> | <b>0.1287</b> |          | <b>2,032.3736</b> | <b>2,032.3736</b> | <b>0.0390</b> | <b>0.0372</b> | <b>2,044.4510</b> |



Ceres Gateway - Full Build-Out - Stanislaus County, Summer

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

### **Mitigated**

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

|                                      | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                             | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Convenience Market With Gas Pumps    | 0.188701        | 2.0400e-003   | 0.0185        | 0.0155        | 1.1000e-004   |               | 1.4100e-003   | 1.4100e-003   |                | 1.4100e-003   | 1.4100e-003   |          | 22.2001           | 22.2001           | 4.3000e-004   | 4.1000e-004   | 22.3321           |
| Fast Food Restaurant with Drive Thru | 1.44815         | 0.0156        | 0.1420        | 0.1193        | 8.5000e-004   |               | 0.0108        | 0.0108        |                | 0.0108        | 0.0108        |          | 170.3707          | 170.3707          | 3.2700e-003   | 3.1200e-003   | 171.3831          |
| Fast Food Restaurant with Drive Thru | 1.49888         | 0.0162        | 0.1470        | 0.1234        | 8.8000e-004   |               | 0.0112        | 0.0112        |                | 0.0112        | 0.0112        |          | 176.3391          | 176.3391          | 3.3800e-003   | 3.2300e-003   | 177.3870          |
| Fast Food Restaurant with Drive Thru | 2.29098         | 0.0247        | 0.2246        | 0.1887        | 1.3500e-003   |               | 0.0171        | 0.0171        |                | 0.0171        | 0.0171        |          | 269.5275          | 269.5275          | 5.1700e-003   | 4.9400e-003   | 271.1292          |
| Fast Food Restaurant with Drive Thru | 2.61094         | 0.0282        | 0.2560        | 0.2150        | 1.5400e-003   |               | 0.0195        | 0.0195        |                | 0.0195        | 0.0195        |          | 307.1691          | 307.1691          | 5.8900e-003   | 5.6300e-003   | 308.9945          |
| Fast Food Restaurant with Drive Thru | 1.24234         | 0.0134        | 0.1218        | 0.1023        | 7.3000e-004   |               | 9.2600e-003   | 9.2600e-003   |                | 9.2600e-003   | 9.2600e-003   |          | 146.1580          | 146.1580          | 2.8000e-003   | 2.6800e-003   | 147.0265          |
| Fast Food Restaurant with Drive Thru | 1.39396         | 0.0150        | 0.1367        | 0.1148        | 8.2000e-004   |               | 0.0104        | 0.0104        |                | 0.0104        | 0.0104        |          | 163.9954          | 163.9954          | 3.1400e-003   | 3.0100e-003   | 164.9699          |
| High Turnover (Sit Down Restaurant)  | 1.16855         | 0.0126        | 0.1146        | 0.0962        | 6.9000e-004   |               | 8.7100e-003   | 8.7100e-003   |                | 8.7100e-003   | 8.7100e-003   |          | 137.4767          | 137.4767          | 2.6300e-003   | 2.5200e-003   | 138.2936          |
| Hotel                                | 4.40986         | 0.0476        | 0.4323        | 0.3632        | 2.5900e-003   |               | 0.0329        | 0.0329        |                | 0.0329        | 0.0329        |          | 518.8074          | 518.8074          | 9.9400e-003   | 9.5100e-003   | 521.8904          |
| Parking Lot                          | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                           | 0.0439726       | 4.7000e-004   | 4.3100e-003   | 3.6200e-003   | 3.0000e-005   |               | 3.3000e-004   | 3.3000e-004   |                | 3.3000e-004   | 3.3000e-004   |          | 5.1733            | 5.1733            | 1.0000e-004   | 9.0000e-005   | 5.2040            |
| Strip Mall                           | 0.196118        | 2.1100e-003   | 0.0192        | 0.0162        | 1.2000e-004   |               | 1.4600e-003   | 1.4600e-003   |                | 1.4600e-003   | 1.4600e-003   |          | 23.0727           | 23.0727           | 4.4000e-004   | 4.2000e-004   | 23.2098           |
| Strip Mall                           | 0.219863        | 2.3700e-003   | 0.0216        | 0.0181        | 1.3000e-004   |               | 1.6400e-003   | 1.6400e-003   |                | 1.6400e-003   | 1.6400e-003   |          | 25.8662           | 25.8662           | 5.0000e-004   | 4.7000e-004   | 26.0200           |
| Strip Mall                           | 0.228658        | 2.4700e-003   | 0.0224        | 0.0188        | 1.3000e-004   |               | 1.7000e-003   | 1.7000e-003   |                | 1.7000e-003   | 1.7000e-003   |          | 26.9009           | 26.9009           | 5.2000e-004   | 4.9000e-004   | 27.0607           |
| Strip Mall                           | 0.334192        | 3.6000e-003   | 0.0328        | 0.0275        | 2.0000e-004   |               | 2.4900e-003   | 2.4900e-003   |                | 2.4900e-003   | 2.4900e-003   |          | 39.3167           | 39.3167           | 7.5000e-004   | 7.2000e-004   | 39.5503           |
| <b>Total</b>                         |                 | <b>0.1863</b> | <b>1.6937</b> | <b>1.4227</b> | <b>0.0102</b> |               | <b>0.1287</b> | <b>0.1287</b> |                | <b>0.1287</b> | <b>0.1287</b> |          | <b>2,032.3736</b> | <b>2,032.3736</b> | <b>0.0390</b> | <b>0.0372</b> | <b>2,044.4510</b> |

6.0 Area Detail

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**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   | 3.1717 | 6.7000e-004 | 0.0731 | 1.0000e-005 |               | 2.6000e-004  | 2.6000e-004 |                | 2.6000e-004   | 2.6000e-004 |          | 0.1562    | 0.1562    | 4.1000e-004 |     | 0.1665 |
| Unmitigated | 3.1717 | 6.7000e-004 | 0.0731 | 1.0000e-005 |               | 2.6000e-004  | 2.6000e-004 |                | 2.6000e-004   | 2.6000e-004 |          | 0.1562    | 0.1562    | 4.1000e-004 |     | 0.1665 |

**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 | 0.4783        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 2.6866        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 6.8300e-003   | 6.7000e-004        | 0.0731        | 1.0000e-005        |               | 2.6000e-004        | 2.6000e-004        |                | 2.6000e-004        | 2.6000e-004        |          | 0.1562        | 0.1562        | 4.1000e-004        |     | 0.1665        |
| <b>Total</b>          | <b>3.1717</b> | <b>6.7000e-004</b> | <b>0.0731</b> | <b>1.0000e-005</b> |               | <b>2.6000e-004</b> | <b>2.6000e-004</b> |                | <b>2.6000e-004</b> | <b>2.6000e-004</b> |          | <b>0.1562</b> | <b>0.1562</b> | <b>4.1000e-004</b> |     | <b>0.1665</b> |

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

**6.2 Area by SubCategory**

Mitigated

|                       | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |                    |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.4783        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 2.6866        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 6.8300e-003   | 6.7000e-004        | 0.0731        | 1.0000e-005        |               | 2.6000e-004        | 2.6000e-004        |                | 2.6000e-004        | 2.6000e-004        |          | 0.1562        | 0.1562        | 4.1000e-004        |     | 0.1665        |
| <b>Total</b>          | <b>3.1717</b> | <b>6.7000e-004</b> | <b>0.0731</b> | <b>1.0000e-005</b> |               | <b>2.6000e-004</b> | <b>2.6000e-004</b> |                | <b>2.6000e-004</b> | <b>2.6000e-004</b> |          | <b>0.1562</b> | <b>0.1562</b> | <b>4.1000e-004</b> |     | <b>0.1665</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Ceres Gateway - Full Build-Out - Stanislaus County, Summer

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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