

## **APPENDIX 3.3-A, APPENDIX A: CALEEMOD OUTPUTS FOR STATION AND LIGHT MAINTENANCE FACILITY OPERATION**



Existing 4th and King Station No Project - San Francisco County, Annual

**Existing 4th and King Station No Project  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 17.00 | 1000sqft | 0.39        | 17,000.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                                |                                |       |                                  |       |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                          | <b>Wind Speed (m/s)</b>        | 4.6   | <b>Precipitation Freq (Days)</b> | 64    |
| <b>Climate Zone</b>            | 5                              |                                |       | <b>Operational Year</b>          | 2015  |
| <b>Utility Company</b>         | Pacific Gas & Electric Company |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 391                            | <b>CH4 Intensity (lb/MWhr)</b> | 0.033 | <b>N2O Intensity (lb/MWhr)</b>   | 0.004 |

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

Project Characteristics - 2016 EF from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific data

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - -

| Table Name                | Column Name                       | Default Value | New Value |
|---------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 8,500.00      | 0.00      |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 25,500.00     | 0.00      |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.47     |
| tblEnergyUse              | NT24E                             | 3.36          | 12.58     |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26      |
| tblEnergyUse              | T24E                              | 1.21          | 5.03      |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73      |
| tblFleetMix               | HHD                               | 8.2610e-003   | 0.00      |
| tblFleetMix               | LDA                               | 0.61          | 0.72      |
| tblFleetMix               | LDT1                              | 0.05          | 0.06      |
| tblFleetMix               | LDT2                              | 0.19          | 0.22      |
| tblFleetMix               | LHD1                              | 0.02          | 0.00      |
| tblFleetMix               | LHD2                              | 4.4220e-003   | 0.00      |
| tblFleetMix               | MCY                               | 8.4890e-003   | 0.01      |
| tblFleetMix               | MDV                               | 0.08          | 0.00      |
| tblFleetMix               | MH                                | 3.7100e-004   | 0.00      |
| tblFleetMix               | MHD                               | 0.02          | 0.00      |
| tblFleetMix               | OBUS                              | 4.3430e-003   | 0.00      |
| tblFleetMix               | SBUS                              | 8.6500e-004   | 0.00      |
| tblFleetMix               | UBUS                              | 7.5430e-003   | 0.00      |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00      |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00      |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.033     |
| tblProjectCharacteristics | CO2IntensityFactor                | 641.35        | 391       |

|                                 |                     |              |              |
|---------------------------------|---------------------|--------------|--------------|
| tblProjectCharacteristics       | N2OIntensityFactor  | 0.006        | 0.004        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue     | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay         | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear        | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment   | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength   | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength    | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength    | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber    | 1.00         | 0.00         |
| tblVehicleTrips                 | DV_TP               | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP               | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP               | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR               | 1.32         | 175.28       |
| tblVehicleTrips                 | SU_TR               | 0.68         | 175.28       |
| tblVehicleTrips                 | WD_TR               | 6.97         | 175.28       |
| tblWater                        | IndoorWaterUseRate  | 3,931,250.00 | 1,002,984.00 |
| tblWater                        | OutdoorWaterUseRate | 0.00         | 510,016.00   |

## 2.0 Emissions Summary

### 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     | 0.0753   | 0        | 1.60E-04 | 0        |               | 0            | 0          |                | 0             | 0           | 0        | 3.00E-04  | 3.00E-04  | 0        | 0        | 3.30E-04 |
| Energy   | 4.60E-04 | 4.16E-03 | 3.49E-03 | 2.00E-05 |               | 3.20E-04     | 3.20E-04   |                | 3.20E-04      | 3.20E-04    | 0        | 89.1889   | 89.1889   | 7.23E-03 | 9.50E-04 | 89.6525  |



Existing 4th and King Station With Project - San Francisco County, Annual

**Existing 4th and King Station With Project  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 25.40 | 1000sqft | 0.58        | 25,400.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |       |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 4.6   | <b>Precipitation Freq (Days)</b> | 64    |
| <b>Climate Zone</b>             | 5                              |                                 |       | <b>Operational Year</b>          | 2015  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 391                            | <b>CH4 Intensity (lb/MW hr)</b> | 0.033 | <b>N2O Intensity (lb/MW hr)</b>  | 0.004 |

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

- Project Characteristics - 2016 EF from Egrid and PG&E
- Land Use - -
- Construction Phase - -
- Off-road Equipment - -
- Trips and VMT - -
- Architectural Coating - -
- Vehicle Trips - employee and passenger
- Energy Use - reweighted per project specific info
- Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific data

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - -

| Table Name                | Column Name                       | Default Value | New Value |
|---------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 12,700.00     | 0.00      |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 38,100.00     | 0.00      |
| tblConstructionPhase      | NumDays                           | 5.00          | 0.00      |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.47     |
| tblEnergyUse              | NT24E                             | 3.36          | 12.58     |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26      |
| tblEnergyUse              | T24E                              | 1.21          | 5.03      |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73      |
| tblFleetMix               | HHD                               | 8.2610e-003   | 0.00      |
| tblFleetMix               | LDA                               | 0.61          | 0.72      |
| tblFleetMix               | LDT1                              | 0.05          | 0.06      |
| tblFleetMix               | LDT2                              | 0.19          | 0.22      |
| tblFleetMix               | LHD1                              | 0.02          | 0.00      |
| tblFleetMix               | LHD2                              | 4.4220e-003   | 0.00      |
| tblFleetMix               | MCY                               | 8.4890e-003   | 0.01      |
| tblFleetMix               | MDV                               | 0.08          | 0.00      |
| tblFleetMix               | MH                                | 3.7100e-004   | 0.00      |
| tblFleetMix               | MHD                               | 0.02          | 0.00      |
| tblFleetMix               | OBUS                              | 4.3430e-003   | 0.00      |
| tblFleetMix               | SBUS                              | 8.6500e-004   | 0.00      |
| tblFleetMix               | UBUS                              | 7.5430e-003   | 0.00      |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00      |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00      |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.033     |



|                                 |                     |              |              |
|---------------------------------|---------------------|--------------|--------------|
| tblProjectCharacteristics       | CO2IntensityFactor  | 641.35       | 391          |
| tblProjectCharacteristics       | N2OIntensityFactor  | 0.006        | 0.004        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue     | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay         | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear        | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment   | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength   | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength    | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength    | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber    | 2.00         | 0.00         |
| tblVehicleTrips                 | DV_TP               | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP               | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP               | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR               | 1.32         | 258.36       |
| tblVehicleTrips                 | SU_TR               | 0.68         | 258.36       |
| tblVehicleTrips                 | WD_TR               | 6.97         | 258.36       |
| tblWater                        | IndoorWaterUseRate  | 5,873,750.00 | 1,498,576.00 |
| tblWater                        | OutdoorWaterUseRate | 0.00         | 762,024.00   |

## 2.0 Emissions Summary

### 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     | 0.1125   | 0        | 2.40E-04 | 0        |               | 0            | 0          |                | 0             | 0           | 0        | 4.50E-04  | 4.50E-04  | 0      | 0        | 4.90E-04 |
| Energy   | 6.80E-04 | 6.21E-03 | 5.22E-03 | 4.00E-05 |               | 4.70E-04     | 4.70E-04   |                | 4.70E-04      | 4.70E-04    | 0        | 133.2586  | 133.2586  | 0.0108 | 1.42E-03 | 133.9514 |



LMF With Project - San Mateo County, Annual

**LMF With Project**  
**San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|----------|-------------|--------------------|------------|
| General Light Industry | 433.62 | 1000sqft | 9.95        | 433,620.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2  | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2015  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 391                            | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

Project Characteristics - 2015 Efs from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and haul trips

Fleet Mix - reweighted to LDA/LDT/MCY

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

| Table Name                      | Column Name                       | Default Value | New Value   |
|---------------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating         | ConstArea_Nonresidential_Exterior | 216,810.00    | 0.00        |
| tblArchitecturalCoating         | ConstArea_Nonresidential_Interior | 650,430.00    | 0.00        |
| tblConstructionPhase            | NumDays                           | 20.00         | 0.00        |
| tblConstructionPhase            | PhaseEndDate                      | 2/3/2020      | 11/12/2018  |
| tblConstructionPhase            | PhaseStartDate                    | 1/7/2020      | 11/13/2018  |
| tblFleetMix                     | HHD                               | 6.0940e-003   | 0.00        |
| tblFleetMix                     | LDA                               | 0.54          | 0.66        |
| tblFleetMix                     | LDT1                              | 0.05          | 0.06        |
| tblFleetMix                     | LDT2                              | 0.22          | 0.27        |
| tblFleetMix                     | LHD1                              | 0.02          | 0.00        |
| tblFleetMix                     | LHD2                              | 5.3200e-003   | 0.00        |
| tblFleetMix                     | MCY                               | 7.3670e-003   | 9.0000e-003 |
| tblFleetMix                     | MDV                               | 0.13          | 0.00        |
| tblFleetMix                     | MH                                | 6.4300e-004   | 0.00        |
| tblFleetMix                     | MHD                               | 0.02          | 0.00        |
| tblFleetMix                     | OBUS                              | 3.3560e-003   | 0.00        |
| tblFleetMix                     | SBUS                              | 3.4300e-004   | 0.00        |
| tblFleetMix                     | UBUS                              | 3.8220e-003   | 0.00        |
| tblOffRoadEquipment             | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment             | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment             | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment             | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics       | CH4IntensityFactor                | 0.029         | 0.02        |
| tblProjectCharacteristics       | CO2IntensityFactor                | 641.35        | 391         |
| tblProjectCharacteristics       | N2OIntensityFactor                | 0.006         | 0.002       |
| tblStationaryGeneratorsPumpsEF  | CH4_EF                            | 0.07          | 0.07        |
| tblStationaryGeneratorsPumpsEF  | ROG_EF                            | 2.2480e-003   | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue                   | 0.00          | 1,072.82    |

|                                 |                   |       |        |
|---------------------------------|-------------------|-------|--------|
| tblStationaryGeneratorsPumpsUse | HoursPerDay       | 0.00  | 1.00   |
| tblStationaryGeneratorsPumpsUse | HoursPerYear      | 0.00  | 50.00  |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00  | 1.00   |
| tblTripsAndVMT                  | HaulingTripLength | 20.00 | 0.00   |
| tblTripsAndVMT                  | VendorTripLength  | 7.30  | 0.00   |
| tblTripsAndVMT                  | WorkerTripLength  | 10.80 | 0.00   |
| tblTripsAndVMT                  | WorkerTripNumber  | 36.00 | 0.00   |
| tblVehicleTrips                 | DV_TP             | 5.00  | 0.00   |
| tblVehicleTrips                 | PB_TP             | 3.00  | 0.00   |
| tblVehicleTrips                 | PR_TP             | 92.00 | 100.00 |
| tblVehicleTrips                 | ST_TR             | 1.32  | 1.09   |
| tblVehicleTrips                 | SU_TR             | 0.68  | 1.09   |
| tblVehicleTrips                 | WD_TR             | 6.97  | 1.09   |

## 2.0 Emissions Summary

|              | ROG           | NOx           | CO            | SO2             | Fugitive 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       |               |               |                 |               |               |               |                |               |               | M1/yr           |                 |                 |               |               |                 |
| Area         | 1.92          | 4.00E-05      | 4.12E-03      | 0               |               | 1.00E-05      | 1.00E-05      |                | 1.00E-05      | 1.00E-05      | 0               | 7.75E-03        | 7.75E-03        | 2.00E-05      | 0             | 8.31E-03        |
| Energy       | 0.0579        | 0.5261        | 0.4419        | 3.16E-03        |               | 0.04          | 0.04          |                | 0.04          | 0.04          | 0               | 1,154.10        | 1,154.10        | 0.0407        | 0.0135        | 1,159.14        |
| Mobile       | 0.1957        | 0.2449        | 2.569         | 5.63E-03        | 0.5385        | 3.45E-03      | 0.542         | 0.1432         | 3.19E-03      | 0.1464        | 0               | 508.0089        | 508.0089        | 0.0212        | 0             | 508.5383        |
| Stationary   | 0.044         | 0.1967        | 0.1121        | 2.10E-04        |               | 6.47E-03      | 6.47E-03      |                | 6.47E-03      | 6.47E-03      | 0               | 20.4107         | 20.4107         | 2.86E-03      | 0             | 20.4823         |
| Waste        |               |               |               |                 |               | 0             | 0             |                | 0             | 0             | 109.1462        | 0               | 109.1462        | 6.4504        | 0             | 270.4051        |
| Water        |               |               |               |                 |               | 0             | 0             |                | 0             | 0             | 31.8125         | 96.2301         | 128.0426        | 3.2724        | 0.0776        | 232.9898        |
| <b>Total</b> | <b>2.2176</b> | <b>0.9677</b> | <b>3.1271</b> | <b>9.00E-03</b> | <b>0.5385</b> | <b>0.0499</b> | <b>0.5884</b> | <b>0.1432</b>  | <b>0.0497</b> | <b>0.1928</b> | <b>140.9587</b> | <b>1,778.76</b> | <b>1,919.72</b> | <b>9.7875</b> | <b>0.0911</b> | <b>2,191.56</b> |



Existing Millbrae Station No Project - San Mateo County, Annual

**Existing Millbrae Station No Project  
San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 30.84 | 1000sqft | 0.71        | 30,840.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                                |                                |       |                                  |       |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                          | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>            | 5                              |                                |       | <b>Operational Year</b>          | 2015  |
| <b>Utility Company</b>         | Pacific Gas & Electric Company |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 391                            | <b>CH4 Intensity (lb/MWhr)</b> | 0.033 | <b>N2O Intensity (lb/MWhr)</b>   | 0.004 |

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

Project Characteristics - 2016 EFs from Egrid and PG&E  
 Land Use - -  
 Construction Phase - -  
 Off-road Equipment - -  
 Trips and VMT - -  
 Architectural Coating - -  
 Vehicle Trips - employee and passenger  
 Energy Use - reweighted per project specific info  
 Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - project specific info

| Table Name                | Column Name                       | Default Value | New Value   |
|---------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 15,420.00     | 0.00        |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 46,260.00     | 0.00        |
| tblConstructionPhase      | NumDays                           | 5.00          | 0.00        |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.44       |
| tblEnergyUse              | NT24E                             | 3.36          | 12.54       |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26        |
| tblEnergyUse              | T24E                              | 1.21          | 5.02        |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73        |
| tblFleetMix               | HHD                               | 6.0940e-003   | 0.00        |
| tblFleetMix               | LDA                               | 0.54          | 0.66        |
| tblFleetMix               | LDT1                              | 0.05          | 0.06        |
| tblFleetMix               | LDT2                              | 0.22          | 0.27        |
| tblFleetMix               | LHD1                              | 0.02          | 0.00        |
| tblFleetMix               | LHD2                              | 5.3200e-003   | 0.00        |
| tblFleetMix               | MCY                               | 7.3670e-003   | 9.0000e-003 |
| tblFleetMix               | MDV                               | 0.13          | 0.00        |
| tblFleetMix               | MH                                | 6.4300e-004   | 0.00        |
| tblFleetMix               | MHD                               | 0.02          | 0.00        |
| tblFleetMix               | OBUS                              | 3.3560e-003   | 0.00        |
| tblFleetMix               | SBUS                              | 3.4300e-004   | 0.00        |
| tblFleetMix               | UBUS                              | 3.8220e-003   | 0.00        |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.033       |



|                                 |                          |              |              |
|---------------------------------|--------------------------|--------------|--------------|
| tblProjectCharacteristics       | CO2IntensityFactor       | 641.35       | 391          |
| tblProjectCharacteristics       | N2OIntensityFactor       | 0.006        | 0.004        |
| tblSolidWaste                   | SolidWasteGenerationRate | 38.24        | 31.00        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue          | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay              | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear             | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment        | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength        | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength         | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength         | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber         | 3.00         | 0.00         |
| tblVehicleTrips                 | DV_TP                    | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP                    | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP                    | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR                    | 1.32         | 298.96       |
| tblVehicleTrips                 | SU_TR                    | 0.68         | 298.96       |
| tblVehicleTrips                 | WD_TR                    | 6.97         | 298.96       |
| tblWater                        | IndoorWaterUseRate       | 7,131,750.00 | 1,819,531.00 |
| tblWater                        | OutdoorWaterUseRate      | 0.00         | 925,229.00   |

## 2.0 Emissions Summary

### 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    |           |           |     |     |      |



Existing Millbrae Station With Project - San Mateo County, Annual

**Existing Millbrae Station With Project  
San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 55.22 | 1000sqft | 1.27        | 55,215.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                                |                                |       |                                  |       |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                          | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>            | 5                              |                                |       | <b>Operational Year</b>          | 2015  |
| <b>Utility Company</b>         | Pacific Gas & Electric Company |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 391                            | <b>CH4 Intensity (lb/MWhr)</b> | 0.033 | <b>N2O Intensity (lb/MWhr)</b>   | 0.004 |

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

Project Characteristics - 2016 EFs from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - project specific info

| Table Name                | Column Name                       | Default Value | New Value   |
|---------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 27,608.00     | 0.00        |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 82,823.00     | 0.00        |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.47       |
| tblEnergyUse              | NT24E                             | 3.36          | 12.58       |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26        |
| tblEnergyUse              | T24E                              | 1.21          | 5.03        |
| tblEnergyUse              | T24NG                             | 17.85         | 3.74        |
| tblFleetMix               | HHD                               | 6.0940e-003   | 0.00        |
| tblFleetMix               | LDA                               | 0.54          | 0.66        |
| tblFleetMix               | LDT1                              | 0.05          | 0.06        |
| tblFleetMix               | LDT2                              | 0.22          | 0.27        |
| tblFleetMix               | LHD1                              | 0.02          | 0.00        |
| tblFleetMix               | LHD2                              | 5.3200e-003   | 0.00        |
| tblFleetMix               | MCY                               | 7.3670e-003   | 9.0000e-003 |
| tblFleetMix               | MDV                               | 0.13          | 0.00        |
| tblFleetMix               | MH                                | 6.4300e-004   | 0.00        |
| tblFleetMix               | MHD                               | 0.02          | 0.00        |
| tblFleetMix               | OBUS                              | 3.3560e-003   | 0.00        |
| tblFleetMix               | SBUS                              | 3.4300e-004   | 0.00        |
| tblFleetMix               | UBUS                              | 3.8220e-003   | 0.00        |
| tblLandUse                | LandUseSquareFeet                 | 55,220.00     | 55,215.00   |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.033       |

|                                 |                     |               |              |
|---------------------------------|---------------------|---------------|--------------|
| tblProjectCharacteristics       | CO2IntensityFactor  | 641.35        | 391          |
| tblProjectCharacteristics       | N2OIntensityFactor  | 0.006         | 0.004        |
| tblStationaryGeneratorsPumpsEF  | CH4_EF              | 0.07          | 0.07         |
| tblStationaryGeneratorsPumpsEF  | ROG_EF              | 2.2480e-003   | 2.2477e-003  |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue     | 0.00          | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay         | 0.00          | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear        | 0.00          | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment   | 0.00          | 2.00         |
| tblTripsAndVMT                  | HaulingTripLength   | 20.00         | 0.00         |
| tblTripsAndVMT                  | VendorTripLength    | 7.30          | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength    | 10.80         | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber    | 5.00          | 0.00         |
| tblVehicleTrips                 | DV_TP               | 5.00          | 0.00         |
| tblVehicleTrips                 | PB_TP               | 3.00          | 0.00         |
| tblVehicleTrips                 | PR_TP               | 92.00         | 100.00       |
| tblVehicleTrips                 | ST_TR               | 1.32          | 248.95       |
| tblVehicleTrips                 | SU_TR               | 0.68          | 248.95       |
| tblVehicleTrips                 | WD_TR               | 6.97          | 248.95       |
| tblWater                        | IndoorWaterUseRate  | 12,769,625.00 | 3,257,632.00 |
| tblWater                        | OutdoorWaterUseRate | 0.00          | 1,656,503.00 |

## 2.0 Emissions Summary

### 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     | 0.2445  | 1.00E-05 | 5.20E-04 | 0   |               | 0            | 0          |                | 0             | 0           | 0        | 9.90E-04  | 9.90E-04  | 0   | 0   | 1.06E-03 |



2029 4th and King Station No Project - San Francisco County, Annual

**2029 4th and King Station No Project  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 17.00 | 1000sqft | 0.39        | 17,000.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                                |                                |      |                                  |       |
|--------------------------------|--------------------------------|--------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                          | <b>Wind Speed (m/s)</b>        | 4.6  | <b>Precipitation Freq (Days)</b> | 64    |
| <b>Climate Zone</b>            | 5                              |                                |      | <b>Operational Year</b>          | 2029  |
| <b>Utility Company</b>         | Pacific Gas & Electric Company |                                |      |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 163.23                         | <b>CH4 Intensity (lb/MWhr)</b> | 0.02 | <b>N2O Intensity (lb/MWhr)</b>   | 0.002 |

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

- Project Characteristics - 2016 EFs from Egrid and PG&E
- Land Use - -
- Construction Phase - -
- Off-road Equipment - -
- Trips and VMT - -
- Architectural Coating - -
- Vehicle Trips - employee and passenger
- Energy Use - reweighted per project specific info
- Water And Wastewater - gallons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

| Table Name                | Column Name                       | Default Value | New Value   |
|---------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 8,500.00      | 0.00        |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 25,500.00     | 0.00        |
| tblConstructionPhase      | NumDays                           | 5.00          | 0.00        |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.47       |
| tblEnergyUse              | NT24E                             | 3.36          | 12.58       |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26        |
| tblEnergyUse              | T24E                              | 1.21          | 5.03        |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73        |
| tblFleetMix               | HHD                               | 9.6110e-003   | 0.00        |
| tblFleetMix               | LDA                               | 0.60          | 0.72        |
| tblFleetMix               | LDT1                              | 0.04          | 0.04        |
| tblFleetMix               | LDT2                              | 0.19          | 0.23        |
| tblFleetMix               | LHD1                              | 0.01          | 0.00        |
| tblFleetMix               | LHD2                              | 5.2420e-003   | 0.00        |
| tblFleetMix               | MCY                               | 5.8110e-003   | 7.0000e-003 |
| tblFleetMix               | MDV                               | 0.09          | 0.00        |
| tblFleetMix               | MH                                | 5.8500e-004   | 0.00        |
| tblFleetMix               | MHD                               | 0.03          | 0.00        |
| tblFleetMix               | OBUS                              | 4.2750e-003   | 0.00        |
| tblFleetMix               | SBUS                              | 9.5800e-004   | 0.00        |
| tblFleetMix               | UBUS                              | 2.4390e-003   | 0.00        |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.02        |
| tblProjectCharacteristics | CO2IntensityFactor                | 641.35        | 163.23      |



|                                 |                     |              |              |
|---------------------------------|---------------------|--------------|--------------|
| tblProjectCharacteristics       | N2OIntensityFactor  | 0.006        | 0.002        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue     | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay         | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear        | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment   | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength   | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength    | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength    | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber    | 1.00         | 0.00         |
| tblVehicleTrips                 | DV_TP               | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP               | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP               | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR               | 1.32         | 184.34       |
| tblVehicleTrips                 | SU_TR               | 0.68         | 184.34       |
| tblVehicleTrips                 | WD_TR               | 6.97         | 184.34       |
| tblWater                        | IndoorWaterUseRate  | 3,931,250.00 | 1,002,984.00 |
| tblWater                        | OutdoorWaterUseRate | 0.00         | 510,016.00   |

## 2.0 Emissions Summary

### 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     | 0.0753      | 0.0000      | 1.6000e-004 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 3.0000e-004 | 3.0000e-004 | 0.0000      | 0.0000      | 3.2000e-004 |
| Energy   | 4.6000e-004 | 4.1600e-003 | 3.4900e-003 | 2.0000e-005 |               | 3.2000e-004  | 3.2000e-004 |                | 3.2000e-004   | 3.2000e-004 | 0.0000   | 39.8705     | 39.8705     | 4.4200e-003 | 5.2000e-004 | 40.1347     |



2029 4th and King Station Project - San Francisco County, Annual

**2029 4th and King Station Project**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 25.40 | 1000sqft | 0.58        | 25,400.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 4.6  | <b>Precipitation Freq (Days)</b> | 64    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2029  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 163.23                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

- Project Characteristics - adjusted to account for RPS
- Land Use - -
- Construction Phase - -
- Off-road Equipment - -
- Trips and VMT - -
- Architectural Coating - -
- Vehicle Trips - employee and passenger
- Energy Use - reweighted per project specific info
- Water And Wastewater - gallons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Solid Waste -

| Table Name                | Column Name                       | Default Value | New Value   |
|---------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 12,700.00     | 0.00        |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 38,100.00     | 0.00        |
| tblConstructionPhase      | NumDays                           | 5.00          | 0.00        |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.47       |
| tblEnergyUse              | NT24E                             | 3.36          | 12.58       |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26        |
| tblEnergyUse              | T24E                              | 1.21          | 5.03        |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73        |
| tblFleetMix               | HHD                               | 9.6110e-003   | 0.00        |
| tblFleetMix               | LDA                               | 0.60          | 0.72        |
| tblFleetMix               | LDT1                              | 0.04          | 0.04        |
| tblFleetMix               | LDT2                              | 0.19          | 0.23        |
| tblFleetMix               | LHD1                              | 0.01          | 0.00        |
| tblFleetMix               | LHD2                              | 5.2420e-003   | 0.00        |
| tblFleetMix               | MCY                               | 5.8110e-003   | 7.0000e-003 |
| tblFleetMix               | MDV                               | 0.09          | 0.00        |
| tblFleetMix               | MH                                | 5.8500e-004   | 0.00        |
| tblFleetMix               | MHD                               | 0.03          | 0.00        |
| tblFleetMix               | OBUS                              | 4.2750e-003   | 0.00        |
| tblFleetMix               | SBUS                              | 9.5800e-004   | 0.00        |
| tblFleetMix               | UBUS                              | 2.4390e-003   | 0.00        |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.02        |

|                                 |                     |              |              |
|---------------------------------|---------------------|--------------|--------------|
| tblProjectCharacteristics       | CO2IntensityFactor  | 641.35       | 163.23       |
| tblProjectCharacteristics       | N2OIntensityFactor  | 0.006        | 0.002        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue     | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay         | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear        | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment   | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength   | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength    | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength    | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber    | 2.00         | 0.00         |
| tblVehicleTrips                 | DV_TP               | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP               | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP               | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR               | 1.32         | 264.43       |
| tblVehicleTrips                 | SU_TR               | 0.68         | 264.43       |
| tblVehicleTrips                 | WD_TR               | 6.97         | 264.43       |
| tblWater                        | IndoorWaterUseRate  | 5,873,750.00 | 1,498,576.00 |
| tblWater                        | OutdoorWaterUseRate | 0.00         | 762,024.00   |

## 2.0 Emissions Summary

|            | ROG      | NOx      | CO       | SO2      | Fugitive 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       | 0.1125   | 0        | 2.30E-04 | 0        |               | 0            | 0          |                | 0             | 0           | 0        | 4.50E-04  | 4.50E-04  | 0        | 0        | 4.80E-04 |
| Energy     | 6.80E-04 | 6.21E-03 | 5.22E-03 | 4.00E-05 |               | 4.70E-04     | 4.70E-04   |                | 4.70E-04      | 4.70E-04    | 0        | 59.5713   | 59.5713   | 6.60E-03 | 7.70E-04 | 59.966   |
| Mobile     | 1.1859   | 1.0086   | 14.8597  | 0.0547   | 7.6755        | 0.0436       | 7.7191     | 2.04           | 0.0401        | 2.0801      | 0        | 4,952.09  | 4,952.09  | 0.1512   | 0        | 4,955.87 |
| Stationary | 0.044    | 0.1967   | 0.1121   | 2.10E-04 |               | 6.47E-03     | 6.47E-03   |                | 6.47E-03      | 6.47E-03    | 0        | 20.4107   | 20.4107   | 2.86E-03 | 0        | 20.4823  |
| Waste      |          |          |          |          |               | 0            | 0          |                | 0             | 0           | 6.3942   | 0         | 6.3942    | 0.3779   | 0        | 15.8414  |



2029 LMF - San Mateo County, Annual

**2029 LMF**  
**San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|----------|-------------|--------------------|------------|
| General Light Industry | 433.62 | 1000sqft | 9.95        | 433,620.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2  | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2029  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 163.23                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

Project Characteristics - adjusted for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - adjusted for haul trip and employee

Fleet Mix - adjusted for LDA, LDT, MCY

Energy Use - -

Stationary Sources - User Defined -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name                | Column Name                       | Default Value | New Value |
|---------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 216,810.00    | 0.00      |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 650,430.00    | 0.00      |
| tblConstructionPhase      | NumDays                           | 20.00         | 0.00      |
| tblConstructionPhase      | PhaseStartDate                    | 1/1/2011      | 1/2/2011  |
| tblEnergyUse              | LightingElect                     | 2.99          | 3.08      |
| tblEnergyUse              | NT24E                             | 3.36          | 3.70      |
| tblEnergyUse              | NT24NG                            | 6.90          | 6.67      |
| tblEnergyUse              | T24E                              | 1.21          | 1.48      |
| tblEnergyUse              | T24NG                             | 17.85         | 19.71     |
| tblFleetMix               | HHD                               | 6.7800e-003   | 0.00      |
| tblFleetMix               | LDA                               | 0.45          | 0.57      |
| tblFleetMix               | LDT1                              | 0.05          | 0.06      |
| tblFleetMix               | LDT2                              | 0.28          | 0.35      |
| tblFleetMix               | LHD1                              | 0.02          | 0.00      |
| tblFleetMix               | LHD2                              | 7.5640e-003   | 0.00      |
| tblFleetMix               | MCY                               | 9.4820e-003   | 0.01      |
| tblFleetMix               | MDV                               | 0.15          | 0.00      |
| tblFleetMix               | MH                                | 8.8300e-004   | 0.00      |
| tblFleetMix               | MHD                               | 0.03          | 0.00      |
| tblFleetMix               | OBUS                              | 4.4450e-003   | 0.00      |
| tblFleetMix               | SBUS                              | 5.8900e-004   | 0.00      |
| tblFleetMix               | UBUS                              | 2.9050e-003   | 0.00      |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00      |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.02      |
| tblProjectCharacteristics | CO2IntensityFactor                | 641.35        | 163.23    |



|                                 |                    |             |             |
|---------------------------------|--------------------|-------------|-------------|
| tblProjectCharacteristics       | N2OIntensityFactor | 0.006       | 0.002       |
| tblStationaryGeneratorsPumpsEF  | CH4_EF             | 0.07        | 0.07        |
| tblStationaryGeneratorsPumpsEF  | ROG_EF             | 2.2480e-003 | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue    | 0.00        | 1,072.82    |
| tblStationaryGeneratorsPumpsUse | HoursPerYear       | 0.00        | 50.00       |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment  | 0.00        | 1.00        |
| tblTripsAndVMT                  | HaulingTripLength  | 20.00       | 0.00        |
| tblTripsAndVMT                  | VendorTripLength   | 7.30        | 0.00        |
| tblTripsAndVMT                  | WorkerTripLength   | 10.80       | 0.00        |
| tblTripsAndVMT                  | WorkerTripNumber   | 36.00       | 0.00        |
| tblVehicleTrips                 | CC_TL              | 7.30        | 15.42       |
| tblVehicleTrips                 | CNW_TL             | 7.30        | 15.42       |
| tblVehicleTrips                 | CW_TL              | 9.50        | 15.42       |
| tblVehicleTrips                 | DV_TP              | 5.00        | 0.00        |
| tblVehicleTrips                 | PB_TP              | 3.00        | 0.00        |
| tblVehicleTrips                 | PR_TP              | 92.00       | 100.00      |
| tblVehicleTrips                 | ST_TR              | 1.32        | 1.09        |
| tblVehicleTrips                 | SU_TR              | 0.68        | 1.09        |
| tblVehicleTrips                 | WD_TR              | 6.97        | 1.09        |

## 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     | 1.92    | 4.00E-05 | 3.97E-03 | 0        |               | 1.00E-05     | 1.00E-05   |                | 1.00E-05      | 1.00E-05    | 0        | 7.75E-03  | 7.75E-03  | 2.00E-05 | 0      | 8.25E-03 |
| Energy   | 0.0617  | 0.5607   | 0.471    | 3.36E-03 |               | 0.0426       | 0.0426     |                | 0.0426        | 0.0426      | 0        | 875.6118  | 875.6118  | 0.0442   | 0.0144 | 881.0198 |



Horizon Millbrae Station No Project - San Mateo County, Annual

**Horizon Millbrae Station No Project  
San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 30.84 | 1000sqft | 0.71        | 30,840.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2  | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2040  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 149.14                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

Project Characteristics - 2016 EFs from Egrid and PG&E to account for RPS  
 Land Use - -  
 Construction Phase - -  
 Off-road Equipment - -  
 Trips and VMT - -  
 Architectural Coating - -  
 Vehicle Trips - employee and passenger  
 Energy Use - reweighted per project specific info  
 Water And Wastewater - gallons per project specific info

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

| Table Name                | Column Name                       | Default Value | New Value |
|---------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating   | ConstArea_Nonresidential_Exterior | 15,420.00     | 0.00      |
| tblArchitecturalCoating   | ConstArea_Nonresidential_Interior | 46,260.00     | 0.00      |
| tblEnergyUse              | LightingElect                     | 2.99          | 10.44     |
| tblEnergyUse              | NT24E                             | 3.36          | 12.54     |
| tblEnergyUse              | NT24NG                            | 6.90          | 1.26      |
| tblEnergyUse              | T24E                              | 1.21          | 5.02      |
| tblEnergyUse              | T24NG                             | 17.85         | 3.73      |
| tblFleetMix               | HHD                               | 7.3010e-003   | 0.00      |
| tblFleetMix               | LDA                               | 0.44          | 0.57      |
| tblFleetMix               | LDT1                              | 0.05          | 0.07      |
| tblFleetMix               | LDT2                              | 0.28          | 0.36      |
| tblFleetMix               | LHD1                              | 0.02          | 0.00      |
| tblFleetMix               | LHD2                              | 7.9370e-003   | 0.00      |
| tblFleetMix               | MCY                               | 9.6810e-003   | 0.01      |
| tblFleetMix               | MDV                               | 0.15          | 0.00      |
| tblFleetMix               | MH                                | 9.7900e-004   | 0.00      |
| tblFleetMix               | MHD                               | 0.03          | 0.00      |
| tblFleetMix               | OBUS                              | 4.7620e-003   | 0.00      |
| tblFleetMix               | SBUS                              | 7.2900e-004   | 0.00      |
| tblFleetMix               | UBUS                              | 2.8150e-003   | 0.00      |
| tblOffRoadEquipment       | HorsePower                        | 78.00         | 0.00      |
| tblOffRoadEquipment       | LoadFactor                        | 0.48          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount        | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                        | 6.00          | 0.00      |
| tblProjectCharacteristics | CH4IntensityFactor                | 0.029         | 0.02      |
| tblProjectCharacteristics | CO2IntensityFactor                | 641.35        | 149.14    |

|                                 |                          |              |              |
|---------------------------------|--------------------------|--------------|--------------|
| tblProjectCharacteristics       | N2OIntensityFactor       | 0.006        | 0.002        |
| tblSolidWaste                   | SolidWasteGenerationRate | 38.24        | 31.50        |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue          | 0.00         | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay              | 0.00         | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear             | 0.00         | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment        | 0.00         | 1.00         |
| tblTripsAndVMT                  | HaulingTripLength        | 20.00        | 0.00         |
| tblTripsAndVMT                  | VendorTripLength         | 7.30         | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength         | 10.80        | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber         | 3.00         | 0.00         |
| tblVehicleTrips                 | DV_TP                    | 5.00         | 0.00         |
| tblVehicleTrips                 | PB_TP                    | 3.00         | 0.00         |
| tblVehicleTrips                 | PR_TP                    | 92.00        | 100.00       |
| tblVehicleTrips                 | ST_TR                    | 1.32         | 337.32       |
| tblVehicleTrips                 | SU_TR                    | 0.68         | 337.32       |
| tblVehicleTrips                 | WD_TR                    | 6.97         | 337.32       |
| tblWater                        | IndoorWaterUseRate       | 7,131,750.00 | 1,819,531.00 |
| tblWater                        | OutdoorWaterUseRate      | 0.00         | 925,229.00   |

## 2.0 Emissions Summary

### 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     | 0.1366   | 0        | 2.80E-04 | 0        |               | 0            | 0          |                | 0             | 0           | 0        | 5.50E-04  | 5.50E-04  | 0        | 0        | 5.90E-04 |
| Energy   | 8.30E-04 | 7.54E-03 | 6.34E-03 | 5.00E-05 |               | 5.70E-04     | 5.70E-04   |                | 5.70E-04      | 5.70E-04    | 0        | 66.6283   | 66.6283   | 7.99E-03 | 9.30E-04 | 67.1064  |



Horizon Millbrae Station With Project - San Mateo County, Annual

**Horizon Millbrae Station With Project  
San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size  | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|-------|----------|-------------|--------------------|------------|
| General Light Industry | 55.22 | 1000sqft | 1.27        | 55,215.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2  | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2040  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 149.14                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

Project Characteristics - 2016 EFs from Egrid and PG&E to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific info

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

| Table Name              | Column Name                       | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 27,608.00     | 0.00      |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 82,823.00     | 0.00      |
| tblAreaCoating          | Area_Nonresidential_Exterior      | 27608         | 15420     |
| tblAreaCoating          | Area_Nonresidential_Interior      | 82823         | 46260     |
| tblEnergyUse            | LightingElect                     | 2.99          | 10.47     |
| tblEnergyUse            | NT24E                             | 3.36          | 12.58     |
| tblEnergyUse            | NT24NG                            | 6.90          | 1.26      |
| tblEnergyUse            | T24E                              | 1.21          | 5.03      |
| tblEnergyUse            | T24NG                             | 17.85         | 3.74      |
| tblFleetMix             | HHD                               | 7.3010e-003   | 0.00      |
| tblFleetMix             | LDA                               | 0.44          | 0.57      |
| tblFleetMix             | LDT1                              | 0.05          | 0.07      |
| tblFleetMix             | LDT2                              | 0.28          | 0.36      |
| tblFleetMix             | LHD1                              | 0.02          | 0.00      |
| tblFleetMix             | LHD2                              | 7.9370e-003   | 0.00      |
| tblFleetMix             | MCY                               | 9.6810e-003   | 0.01      |
| tblFleetMix             | MDV                               | 0.15          | 0.00      |
| tblFleetMix             | MH                                | 9.7900e-004   | 0.00      |
| tblFleetMix             | MHD                               | 0.03          | 0.00      |
| tblFleetMix             | OBUS                              | 4.7620e-003   | 0.00      |
| tblFleetMix             | SBUS                              | 7.2900e-004   | 0.00      |
| tblFleetMix             | UBUS                              | 2.8150e-003   | 0.00      |
| tblLandUse              | LandUseSquareFeet                 | 55,220.00     | 55,215.00 |
| tblOffRoadEquipment     | HorsePower                        | 78.00         | 0.00      |
| tblOffRoadEquipment     | LoadFactor                        | 0.48          | 0.00      |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount        | 1.00          | 0.00      |



|                                 |                          |               |              |
|---------------------------------|--------------------------|---------------|--------------|
| tblOffRoadEquipment             | UsageHours               | 6.00          | 0.00         |
| tblProjectCharacteristics       | CH4IntensityFactor       | 0.029         | 0.02         |
| tblProjectCharacteristics       | CO2IntensityFactor       | 641.35        | 149.14       |
| tblProjectCharacteristics       | N2OIntensityFactor       | 0.006         | 0.002        |
| tblSolidWaste                   | SolidWasteGenerationRate | 68.47         | 68.50        |
| tblStationaryGeneratorsPumpsEF  | CH4_EF                   | 0.07          | 0.07         |
| tblStationaryGeneratorsPumpsEF  | ROG_EF                   | 2.2480e-003   | 2.2477e-003  |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue          | 0.00          | 1,072.82     |
| tblStationaryGeneratorsPumpsUse | HoursPerDay              | 0.00          | 1.00         |
| tblStationaryGeneratorsPumpsUse | HoursPerYear             | 0.00          | 50.00        |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment        | 0.00          | 2.00         |
| tblTripsAndVMT                  | HaulingTripLength        | 20.00         | 0.00         |
| tblTripsAndVMT                  | VendorTripLength         | 7.30          | 0.00         |
| tblTripsAndVMT                  | WorkerTripLength         | 10.80         | 0.00         |
| tblTripsAndVMT                  | WorkerTripNumber         | 5.00          | 0.00         |
| tblVehicleTrips                 | DV_TP                    | 5.00          | 0.00         |
| tblVehicleTrips                 | PB_TP                    | 3.00          | 0.00         |
| tblVehicleTrips                 | PR_TP                    | 92.00         | 100.00       |
| tblVehicleTrips                 | ST_TR                    | 1.32          | 270.37       |
| tblVehicleTrips                 | SU_TR                    | 0.68          | 270.37       |
| tblVehicleTrips                 | WD_TR                    | 6.97          | 270.37       |
| tblWater                        | IndoorWaterUseRate       | 12,769,625.00 | 3,257,632.00 |
| tblWater                        | OutdoorWaterUseRate      | 0.00          | 1,656,503.00 |

## 2.0 Emissions Summary

|          | ROG     | NOx | CO       | SO2 | Fugitive 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     | 0.2318  | 0   | 5.00E-04 | 0   |               | 0            | 0          |                | 0             | 0           | 0        | 9.90E-04  | 9.90E-04  | 0   | 0   | 1.05E-03 |



Horizon LMF - San Mateo County, Annual

**Horizon LMF**  
**San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses              | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|----------|-------------|--------------------|------------|
| General Light Industry | 433.62 | 1000sqft | 9.95        | 433,620.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |      |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2  | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |      | <b>Operational Year</b>          | 2040  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |      |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 149.14                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.02 | <b>N2O Intensity (lb/MW hr)</b>  | 0.002 |

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

Project Characteristics - 2016 EFs from Egrid and PGE to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee + haul trip distance weighted based on H-W employee and 120 haul truck miles

Fleet Mix - reweighted to LDA/LDT/MCY

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

| Table Name                      | Column Name                       | Default Value | New Value   |
|---------------------------------|-----------------------------------|---------------|-------------|
| tblArchitecturalCoating         | ConstArea_Nonresidential_Exterior | 216,810.00    | 0.00        |
| tblArchitecturalCoating         | ConstArea_Nonresidential_Interior | 650,430.00    | 0.00        |
| tblConstructionPhase            | NumDays                           | 20.00         | 0.00        |
| tblConstructionPhase            | PhaseEndDate                      | 2/3/2020      | 11/12/2018  |
| tblConstructionPhase            | PhaseStartDate                    | 1/7/2020      | 11/13/2018  |
| tblFleetMix                     | HHD                               | 7.3010e-003   | 0.00        |
| tblFleetMix                     | LDA                               | 0.44          | 0.57        |
| tblFleetMix                     | LDT1                              | 0.05          | 0.07        |
| tblFleetMix                     | LDT2                              | 0.28          | 0.36        |
| tblFleetMix                     | LHD1                              | 0.02          | 0.00        |
| tblFleetMix                     | LHD2                              | 7.9370e-003   | 0.00        |
| tblFleetMix                     | MCY                               | 9.6810e-003   | 0.01        |
| tblFleetMix                     | MDV                               | 0.15          | 0.00        |
| tblFleetMix                     | MH                                | 9.7900e-004   | 0.00        |
| tblFleetMix                     | MHD                               | 0.03          | 0.00        |
| tblFleetMix                     | OBUS                              | 4.7620e-003   | 0.00        |
| tblFleetMix                     | SBUS                              | 7.2900e-004   | 0.00        |
| tblFleetMix                     | UBUS                              | 2.8150e-003   | 0.00        |
| tblOffRoadEquipment             | HorsePower                        | 78.00         | 0.00        |
| tblOffRoadEquipment             | LoadFactor                        | 0.48          | 0.00        |
| tblOffRoadEquipment             | OffRoadEquipmentUnitAmount        | 1.00          | 0.00        |
| tblOffRoadEquipment             | UsageHours                        | 6.00          | 0.00        |
| tblProjectCharacteristics       | CH4IntensityFactor                | 0.029         | 0.02        |
| tblProjectCharacteristics       | CO2IntensityFactor                | 641.35        | 149.14      |
| tblProjectCharacteristics       | N2OIntensityFactor                | 0.006         | 0.002       |
| tblStationaryGeneratorsPumpsEF  | CH4_EF                            | 0.07          | 0.07        |
| tblStationaryGeneratorsPumpsEF  | ROG_EF                            | 2.2480e-003   | 2.2477e-003 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue                   | 0.00          | 1,072.82    |

|                                 |                   |       |        |
|---------------------------------|-------------------|-------|--------|
| tblStationaryGeneratorsPumpsUse | HoursPerDay       | 0.00  | 1.00   |
| tblStationaryGeneratorsPumpsUse | HoursPerYear      | 0.00  | 50.00  |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00  | 1.00   |
| tblTripsAndVMT                  | HaulingTripLength | 20.00 | 0.00   |
| tblTripsAndVMT                  | VendorTripLength  | 7.30  | 0.00   |
| tblTripsAndVMT                  | WorkerTripLength  | 10.80 | 0.00   |
| tblTripsAndVMT                  | WorkerTripNumber  | 36.00 | 0.00   |
| tblVehicleTrips                 | CC_TL             | 7.30  | 15.42  |
| tblVehicleTrips                 | CNW_TL            | 7.30  | 15.42  |
| tblVehicleTrips                 | CW_TL             | 9.50  | 15.42  |
| tblVehicleTrips                 | DV_TP             | 5.00  | 0.00   |
| tblVehicleTrips                 | PB_TP             | 3.00  | 0.00   |
| tblVehicleTrips                 | PR_TP             | 92.00 | 100.00 |
| tblVehicleTrips                 | ST_TR             | 1.32  | 1.09   |
| tblVehicleTrips                 | SU_TR             | 0.68  | 1.09   |
| tblVehicleTrips                 | WD_TR             | 6.97  | 1.09   |

## 2.0 Emissions Summary

|            | ROG     | NOx      | CO       | SO2      | Fugitive 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       | 1.92    | 4.00E-05 | 3.96E-03 | 0        |               | 1.00E-05     | 1.00E-05   |                | 1.00E-05      | 1.00E-05    | 0        | 7.75E-03  | 7.75E-03  | 2.00E-05 | 0      | 8.25E-03 |
| Energy     | 0.0579  | 0.5261   | 0.4419   | 3.16E-03 |               | 0.04         | 0.04       |                | 0.04          | 0.04        | 0        | 794.4694  | 794.4694  | 0.0407   | 0.0135 | 799.5024 |
| Mobile     | 0.1131  | 0.1031   | 1.4952   | 5.59E-03 | 0.9653        | 2.23E-03     | 0.9675     | 0.2566         | 2.06E-03      | 0.2586      | 0        | 506.0755  | 506.0755  | 0.0188   | 0      | 506.5455 |
| Stationary | 0.044   | 0.1967   | 0.1121   | 2.10E-04 |               | 6.47E-03     | 6.47E-03   |                | 6.47E-03      | 6.47E-03    | 0        | 20.4107   | 20.4107   | 2.86E-03 | 0      | 20.4823  |
| Waste      |         |          |          |          |               | 0            | 0          |                | 0             | 0           | 109.1462 | 0         | 109.1462  | 6.4504   | 0      | 270.4051 |
| Water      |         |          |          |          |               | 0            | 0          |                | 0             | 0           | 31.8125  | 36.7053   | 68.5178   | 3.2724   | 0.0776 | 173.465  |

