# Appendix C

Air Quality and Greenhouse Gas Modeling

# CCB IMP Wells

**San Luis Obispo County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.02 |
| tblFleetMix | LDA | 0.58 | 0.58 |
| tblFleetMix | LDT1 | 0.03 | 0.03 |
| tblFleetMix | LDT2 | 0.20 | 0.20 |
| tblFleetMix | LHD1 | 0.02 | 0.03 |
| tblFleetMix | LHD2 | 6.0960e-003 | 6.4820e-003 |
| tblFleetMix | MCY | 4.9130e-003 | 5.0680e-003 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 1.2990e-003 | 1.4220e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 2.3410e-003 | 2.3540e-003 |
| tblFleetMix | SBUS | 7.7000e-004 | 7.8400e-004 |
| tblFleetMix | UBUS | 1.1880e-003 | 1.2140e-003 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.1596 | 1.5399 | 1.4895 | 3.7900e-003 | 0.0437 | 0.0696 | 0.1133 | 0.0115 | 0.0679 | 0.0794 | 0.0000 | 337.6024 | 337.6024 | 0.0409 | 0.0000 | 338.6238 |
| **Maximum** | **0.1596** | **1.5399** | **1.4895** | **3.7900e-003** | **0.0437** | **0.0696** | **0.1133** | **0.0115** | **0.0679** | **0.0794** | **0.0000** | **337.6024** | **337.6024** | **0.0409** | **0.0000** | **338.6238** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.1596 | 1.5399 | 1.4895 | 3.7900e-003 | 0.0437 | 0.0696 | 0.1133 | 0.0115 | 0.0679 | 0.0794 | 0.0000 | 337.6021 | 337.6021 | 0.0409 | 0.0000 | 338.6236 |
| **Maximum** | **0.1596** | **1.5399** | **1.4895** | **3.7900e-003** | **0.0437** | **0.0696** | **0.1133** | **0.0115** | **0.0679** | **0.0794** | **0.0000** | **337.6021** | **337.6021** | **0.0409** | **0.0000** | **338.6236** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **1-1-2021** | **3-31-2021** | 0.9491 | 0.9491 |
| **2** | **4-1-2021** | **6-30-2021** | 0.7209 | 0.7209 |
| **3** | **7-1-2021** | **9-30-2021** | 0.0261 | 0.0261 |
| | | **Highest** | 0.9491 | 0.9491 |

## 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 | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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**

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB IMP Wells - San Luis Obispo County APCD Air District, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.7000e-004 | 4.7400e-003 | 5.6500e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.6000e-004 | 2.6000e-004 | 0.0000 | 0.6824 | 0.6824 | 2.2000e-004 | 0.0000 | 0.6880 |
| **Total** | **4.7000e-004** | **4.7400e-003** | **5.6500e-003** | **1.0000e-005** | **0.0000** | **2.8000e-004** | **2.8000e-004** | **0.0000** | **2.6000e-004** | **2.6000e-004** | **0.0000** | **0.6824** | **0.6824** | **2.2000e-004** | **0.0000** | **0.6880** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.7000e-004 | 4.7400e-003 | 5.6500e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.6000e-004 | 2.6000e-004 | 0.0000 | 0.6824 | 0.6824 | 2.2000e-004 | 0.0000 | 0.6880 |
| **Total** | **4.7000e-004** | **4.7400e-003** | **5.6500e-003** | **1.0000e-005** | **0.0000** | **2.8000e-004** | **2.8000e-004** | **0.0000** | **2.6000e-004** | **2.6000e-004** | **0.0000** | **0.6824** | **0.6824** | **2.2000e-004** | **0.0000** | **0.6880** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

## 3.3 Outfall Connection - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.0400e-003 | 0.0101 | 0.0138 | 2.0000e-005 | | 5.4000e-004 | 5.4000e-004 | | 5.0000e-004 | 5.0000e-004 | 0.0000 | 1.8169 | 1.8169 | 5.9000e-004 | 0.0000 | 1.8315 |
| **Total** | **1.0400e-003** | **0.0101** | **0.0138** | **2.0000e-005** | | **5.4000e-004** | **5.4000e-004** | | **5.0000e-004** | **5.0000e-004** | **0.0000** | **1.8169** | **1.8169** | **5.9000e-004** | **0.0000** | **1.8315** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.0400e-003 | 0.0101 | 0.0138 | 2.0000e-005 | | 5.4000e-004 | 5.4000e-004 | | 5.0000e-004 | 5.0000e-004 | 0.0000 | 1.8168 | 1.8168 | 5.9000e-004 | 0.0000 | 1.8315 |
| **Total** | **1.0400e-003** | **0.0101** | **0.0138** | **2.0000e-005** | | **5.4000e-004** | **5.4000e-004** | | **5.0000e-004** | **5.0000e-004** | **0.0000** | **1.8168** | **1.8168** | **5.9000e-004** | **0.0000** | **1.8315** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

## 3.4 Monitoring Well Installation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0338 | 0.3042 | 0.3280 | 6.5000e-004 | | 0.0158 | 0.0158 | | 0.0155 | 0.0155 | 0.0000 | 56.6502 | 56.6502 | 8.7600e-003 | 0.0000 | 56.8691 |
| **Total** | **0.0338** | **0.3042** | **0.3280** | **6.5000e-004** | | **0.0158** | **0.0158** | | **0.0155** | **0.0155** | **0.0000** | **56.6502** | **56.6502** | **8.7600e-003** | **0.0000** | **56.8691** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0400e-003 | 0.0816 | 0.0205 | 3.2000e-004 | 9.4900e-003 | 4.6000e-004 | 9.9500e-003 | 2.7400e-003 | 4.4000e-004 | 3.1800e-003 | 0.0000 | 30.6170 | 30.6170 | 9.6000e-004 | 0.0000 | 30.6411 |
| Worker | 1.4300e-003 | 1.2400e-003 | 0.0109 | 3.0000e-005 | 3.3700e-003 | 2.0000e-005 | 3.3900e-003 | 9.0000e-004 | 2.0000e-005 | 9.2000e-004 | 0.0000 | 2.7229 | 2.7229 | 8.0000e-005 | 0.0000 | 2.7249 |
| **Total** | **4.4700e-003** | **0.0828** | **0.0314** | **3.5000e-004** | **0.0129** | **4.8000e-004** | **0.0133** | **3.6400e-003** | **4.6000e-004** | **4.1000e-003** | **0.0000** | **33.3399** | **33.3399** | **1.0400e-003** | **0.0000** | **33.3661** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0338 | 0.3042 | 0.3280 | 6.5000e-004 | | 0.0158 | 0.0158 | | 0.0155 | 0.0155 | 0.0000 | 56.6502 | 56.6502 | 8.7600e-003 | 0.0000 | 56.8691 |
| **Total** | **0.0338** | **0.3042** | **0.3280** | **6.5000e-004** | | **0.0158** | **0.0158** | | **0.0155** | **0.0155** | **0.0000** | **56.6502** | **56.6502** | **8.7600e-003** | **0.0000** | **56.8691** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0400e-003 | 0.0816 | 0.0205 | 3.2000e-004 | 9.4900e-003 | 4.6000e-004 | 9.9500e-003 | 2.7400e-003 | 4.4000e-004 | 3.1800e-003 | 0.0000 | 30.6170 | 30.6170 | 9.6000e-004 | 0.0000 | 30.6411 |
| Worker | 1.4300e-003 | 1.2400e-003 | 0.0109 | 3.0000e-005 | 3.3700e-003 | 2.0000e-005 | 3.3900e-003 | 9.0000e-004 | 2.0000e-005 | 9.2000e-004 | 0.0000 | 2.7229 | 2.7229 | 8.0000e-005 | 0.0000 | 2.7249 |
| **Total** | **4.4700e-003** | **0.0828** | **0.0314** | **3.5000e-004** | **0.0129** | **4.8000e-004** | **0.0133** | **3.6400e-003** | **4.6000e-004** | **4.1000e-003** | **0.0000** | **33.3399** | **33.3399** | **1.0400e-003** | **0.0000** | **33.3661** |

## 3.5 Critical Drilling - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.1900e-003 | 0.0000 | 4.1900e-003 | 4.5000e-004 | 0.0000 | 4.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0454 | 0.4036 | 0.4052 | 8.7000e-004 | | 0.0209 | 0.0209 | | 0.0204 | 0.0204 | 0.0000 | 75.5739 | 75.5739 | 0.0120 | 0.0000 | 75.8741 |
| **Total** | **0.0454** | **0.4036** | **0.4052** | **8.7000e-004** | **4.1900e-003** | **0.0209** | **0.0251** | **4.5000e-004** | **0.0204** | **0.0208** | **0.0000** | **75.5739** | **75.5739** | **0.0120** | **0.0000** | **75.8741** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.4700e-003 | 3.3000e-004 | 0.0000 | 9.0000e-005 | 1.0000e-005 | 9.0000e-005 | 2.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.3803 | 0.3803 | 2.0000e-005 | 0.0000 | 0.3809 |
| Vendor | 6.0000e-005 | 2.0000e-003 | 5.9000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.0000e-004 | 3.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.4016 | 0.4016 | 2.0000e-005 | 0.0000 | 0.4022 |
| Worker | 8.6000e-004 | 7.5000e-004 | 6.5500e-003 | 2.0000e-005 | 2.0200e-003 | 1.0000e-005 | 2.0300e-003 | 5.4000e-004 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 1.6337 | 1.6337 | 5.0000e-005 | 0.0000 | 1.6350 |
| **Total** | **9.6000e-004** | **4.2200e-003** | **7.4700e-003** | **2.0000e-005** | **2.2100e-003** | **3.0000e-005** | **2.2200e-003** | **5.9000e-004** | **3.0000e-005** | **6.1000e-004** | **0.0000** | **2.4156** | **2.4156** | **9.0000e-005** | **0.0000** | **2.4180** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.1900e-003 | 0.0000 | 4.1900e-003 | 4.5000e-004 | 0.0000 | 4.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0454 | 0.4036 | 0.4052 | 8.7000e-004 | | 0.0209 | 0.0209 | | 0.0204 | 0.0204 | 0.0000 | 75.5738 | 75.5738 | 0.0120 | 0.0000 | 75.8740 |
| **Total** | **0.0454** | **0.4036** | **0.4052** | **8.7000e-004** | **4.1900e-003** | **0.0209** | **0.0251** | **4.5000e-004** | **0.0204** | **0.0208** | **0.0000** | **75.5738** | **75.5738** | **0.0120** | **0.0000** | **75.8740** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.4700e-003 | 3.3000e-004 | 0.0000 | 9.0000e-005 | 1.0000e-005 | 9.0000e-005 | 2.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.3803 | 0.3803 | 2.0000e-005 | 0.0000 | 0.3809 |
| Vendor | 6.0000e-005 | 2.0000e-003 | 5.9000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.0000e-004 | 3.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.4016 | 0.4016 | 2.0000e-005 | 0.0000 | 0.4022 |
| Worker | 8.6000e-004 | 7.5000e-004 | 6.5500e-003 | 2.0000e-005 | 2.0200e-003 | 1.0000e-005 | 2.0300e-003 | 5.4000e-004 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 1.6337 | 1.6337 | 5.0000e-005 | 0.0000 | 1.6350 |
| **Total** | **9.6000e-004** | **4.2200e-003** | **7.4700e-003** | **2.0000e-005** | **2.2100e-003** | **3.0000e-005** | **2.2200e-003** | **5.9000e-004** | **3.0000e-005** | **6.1000e-004** | **0.0000** | **2.4156** | **2.4156** | **9.0000e-005** | **0.0000** | **2.4180** |

## 3.6 Groundwater Well Installation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0579 | 0.5214 | 0.5623 | 1.1200e-003 | | 0.0271 | 0.0271 | | 0.0265 | 0.0265 | 0.0000 | 97.1147 | 97.1147 | 0.0150 | 0.0000 | 97.4900 |
| **Total** | **0.0579** | **0.5214** | **0.5623** | **1.1200e-003** | | **0.0271** | **0.0271** | | **0.0265** | **0.0265** | **0.0000** | **97.1147** | **97.1147** | **0.0150** | **0.0000** | **97.4900** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.2000e-003 | 0.1398 | 0.0352 | 5.4000e-004 | 0.0163 | 7.9000e-004 | 0.0171 | 4.6900e-003 | 7.6000e-004 | 5.4500e-003 | 0.0000 | 52.4863 | 52.4863 | 1.6500e-003 | 0.0000 | 52.5277 |
| Worker | 2.4500e-003 | 2.1300e-003 | 0.0187 | 5.0000e-005 | 5.7800e-003 | 4.0000e-005 | 5.8100e-003 | 1.5400e-003 | 3.0000e-005 | 1.5700e-003 | 0.0000 | 4.6678 | 4.6678 | 1.4000e-004 | 0.0000 | 4.6713 |
| **Total** | **7.6500e-003** | **0.1419** | **0.0539** | **5.9000e-004** | **0.0220** | **8.3000e-004** | **0.0229** | **6.2300e-003** | **7.9000e-004** | **7.0200e-003** | **0.0000** | **57.1541** | **57.1541** | **1.7900e-003** | **0.0000** | **57.1990** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0579 | 0.5214 | 0.5623 | 1.1200e-003 | | 0.0271 | 0.0271 | | 0.0265 | 0.0265 | 0.0000 | 97.1146 | 97.1146 | 0.0150 | 0.0000 | 97.4898 |
| **Total** | **0.0579** | **0.5214** | **0.5623** | **1.1200e-003** | | **0.0271** | **0.0271** | | **0.0265** | **0.0265** | **0.0000** | **97.1146** | **97.1146** | **0.0150** | **0.0000** | **97.4898** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.2000e-003 | 0.1398 | 0.0352 | 5.4000e-004 | 0.0163 | 7.9000e-004 | 0.0171 | 4.6900e-003 | 7.6000e-004 | 5.4500e-003 | 0.0000 | 52.4863 | 52.4863 | 1.6500e-003 | 0.0000 | 52.5277 |
| Worker | 2.4500e-003 | 2.1300e-003 | 0.0187 | 5.0000e-005 | 5.7800e-003 | 4.0000e-005 | 5.8100e-003 | 1.5400e-003 | 3.0000e-005 | 1.5700e-003 | 0.0000 | 4.6678 | 4.6678 | 1.4000e-004 | 0.0000 | 4.6713 |
| **Total** | **7.6500e-003** | **0.1419** | **0.0539** | **5.9000e-004** | **0.0220** | **8.3000e-004** | **0.0229** | **6.2300e-003** | **7.9000e-004** | **7.0200e-003** | **0.0000** | **57.1541** | **57.1541** | **1.7900e-003** | **0.0000** | **57.1990** |

## 3.7 Site Restoration - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 6.9900e-003 | 0.0638 | 0.0735 | 1.2000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.4700e-003 | 3.4700e-003 | 0.0000 | 10.5287 | 10.5287 | 1.2500e-003 | 0.0000 | 10.5600 |
| **Total** | **6.9900e-003** | **0.0638** | **0.0735** | **1.2000e-004** | | **3.5700e-003** | **3.5700e-003** | | **3.4700e-003** | **3.4700e-003** | **0.0000** | **10.5287** | **10.5287** | **1.2500e-003** | **0.0000** | **10.5600** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.0000e-005 | 1.3300e-003 | 3.9000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2677 | 0.2677 | 2.0000e-005 | 0.0000 | 0.2681 |
| Worker | 5.7000e-004 | 5.0000e-004 | 4.3600e-003 | 1.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.0891 | 1.0891 | 3.0000e-005 | 0.0000 | 1.0900 |
| **Total** | **6.1000e-004** | **1.8300e-003** | **4.7500e-003** | **1.0000e-005** | **1.4100e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.3569** | **1.3569** | **5.0000e-005** | **0.0000** | **1.3581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 6.9900e-003 | 0.0638 | 0.0735 | 1.2000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.4700e-003 | 3.4700e-003 | 0.0000 | 10.5287 | 10.5287 | 1.2500e-003 | 0.0000 | 10.5600 |
| **Total** | **6.9900e-003** | **0.0638** | **0.0735** | **1.2000e-004** | | **3.5700e-003** | **3.5700e-003** | | **3.4700e-003** | **3.4700e-003** | **0.0000** | **10.5287** | **10.5287** | **1.2500e-003** | **0.0000** | **10.5600** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.0000e-005 | 1.3300e-003 | 3.9000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2677 | 0.2677 | 2.0000e-005 | 0.0000 | 0.2681 |
| Worker | 5.7000e-004 | 5.0000e-004 | 4.3600e-003 | 1.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.0891 | 1.0891 | 3.0000e-005 | 0.0000 | 1.0900 |
| **Total** | **6.1000e-004** | **1.8300e-003** | **4.7500e-003** | **1.0000e-005** | **1.4100e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.3569** | **1.3569** | **5.0000e-005** | **0.0000** | **1.3581** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.575581 | 0.029595 | 0.198288 | 0.120539 | 0.026172 | 0.006482 | 0.012911 | 0.019591 | 0.002354 | 0.001214 | 0.005068 | 0.000784 | 0.001422 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 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 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 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 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Unmitigated | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.5100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0119 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.5100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0119 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 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

| 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

# CCB IMP Wells

**San Luis Obispo County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.02 |
| tblFleetMix | LDA | 0.58 | 0.58 |
| tblFleetMix | LDT1 | 0.03 | 0.03 |
| tblFleetMix | LDT2 | 0.20 | 0.20 |
| tblFleetMix | LHD1 | 0.02 | 0.03 |
| tblFleetMix | LHD2 | 6.0960e-003 | 6.4820e-003 |
| tblFleetMix | MCY | 4.9130e-003 | 5.0680e-003 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 1.2990e-003 | 1.4220e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 2.3410e-003 | 2.3540e-003 |
| tblFleetMix | SBUS | 7.7000e-004 | 7.8400e-004 |
| tblFleetMix | UBUS | 1.1880e-003 | 1.2140e-003 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4204 | 38.8383 | 39.3070 | 0.0855 | 0.7518 | 1.9934 | 2.6073 | 0.2117 | 1.9446 | 2.0450 | 0.0000 | 8,184.9967 | 8,184.9967 | 1.2710 | 0.0000 | 8,216.7715 |
| **Maximum** | **4.4204** | **38.8383** | **39.3070** | **0.0855** | **0.7518** | **1.9934** | **2.6073** | **0.2117** | **1.9446** | **2.0450** | **0.0000** | **8,184.9967** | **8,184.9967** | **1.2710** | **0.0000** | **8,216.7715** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4204 | 38.8383 | 39.3070 | 0.0855 | 0.7518 | 1.9934 | 2.6073 | 0.2117 | 1.9446 | 2.0450 | 0.0000 | 8,184.9967 | 8,184.9967 | 1.2710 | 0.0000 | 8,216.7715 |
| **Maximum** | **4.4204** | **38.8383** | **39.3070** | **0.0855** | **0.7518** | **1.9934** | **2.6073** | **0.2117** | **1.9446** | **2.0450** | **0.0000** | **8,184.9967** | **8,184.9967** | **1.2710** | **0.0000** | **8,216.7715** |

CCB IMP Wells - San Luis Obispo County APCD Air District, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB IMP Wells - San Luis Obispo County APCD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | 0.0000 | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | **0.0000** | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.3 Outfall Connection - 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 | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | 0.0000 | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | **0.0000** | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.4 Monitoring Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

## 3.5 Critical Drilling - 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 | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.9200e-003 | 0.1383 | 0.0327 | 3.7000e-004 | 8.3100e-003 | 5.9000e-004 | 8.9100e-003 | 2.2800e-003 | 5.7000e-004 | 2.8500e-003 | | 39.5753 | 39.5753 | 2.3600e-003 | | 39.6343 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1012** | **0.3986** | **0.7173** | **2.4700e-003** | **0.2153** | **2.3700e-003** | **0.2177** | **0.0574** | **2.2400e-003** | **0.0596** | | **251.0988** | **251.0988** | **0.0101** | | **251.3515** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | 0.0000 | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | **0.0000** | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.9200e-003 | 0.1383 | 0.0327 | 3.7000e-004 | 8.3100e-003 | 5.9000e-004 | 8.9100e-003 | 2.2800e-003 | 5.7000e-004 | 2.8500e-003 | | 39.5753 | 39.5753 | 2.3600e-003 | | 39.6343 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1012** | **0.3986** | **0.7173** | **2.4700e-003** | **0.2153** | **2.3700e-003** | **0.2177** | **0.0574** | **2.2400e-003** | **0.0596** | | **251.0988** | **251.0988** | **0.0101** | | **251.3515** |

## 3.6 Groundwater Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

## 3.7 Site Restoration - 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 | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | 0.0000 | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | **0.0000** | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.575581 | 0.029595 | 0.198288 | 0.120539 | 0.026172 | 0.006482 | 0.012911 | 0.019591 | 0.002354 | 0.001214 | 0.005068 | 0.000784 | 0.001422 |

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Unmitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |

## 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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

**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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

## 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**

| 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

# CCB IMP Wells

**San Luis Obispo County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

CCB IMP Wells - San Luis Obispo County APCD Air District, Summer

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |

CCB IMP Wells - San Luis Obispo County APCD Air District, Summer

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.02 |
| tblFleetMix | LDA | 0.58 | 0.58 |
| tblFleetMix | LDT1 | 0.03 | 0.03 |
| tblFleetMix | LDT2 | 0.20 | 0.20 |
| tblFleetMix | LHD1 | 0.02 | 0.03 |
| tblFleetMix | LHD2 | 6.0960e-003 | 6.4820e-003 |
| tblFleetMix | MCY | 4.9130e-003 | 5.0680e-003 |
| tblFleetMix | MDV | 0.12 | 0.12 |
| tblFleetMix | MH | 1.2990e-003 | 1.4220e-003 |
| tblFleetMix | MHD | 0.01 | 0.01 |
| tblFleetMix | OBUS | 2.3410e-003 | 2.3540e-003 |
| tblFleetMix | SBUS | 7.7000e-004 | 7.8400e-004 |
| tblFleetMix | UBUS | 1.1880e-003 | 1.2140e-003 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4086 | 38.8301 | 39.3174 | 0.0856 | 0.7518 | 1.9933 | 2.6073 | 0.2117 | 1.9445 | 2.0450 | 0.0000 | 8,195.2678 | 8,195.2678 | 1.2709 | 0.0000 | 8,227.0413 |
| **Maximum** | **4.4086** | **38.8301** | **39.3174** | **0.0856** | **0.7518** | **1.9933** | **2.6073** | **0.2117** | **1.9445** | **2.0450** | **0.0000** | **8,195.2678** | **8,195.2678** | **1.2709** | **0.0000** | **8,227.0413** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4086 | 38.8301 | 39.3174 | 0.0856 | 0.7518 | 1.9933 | 2.6073 | 0.2117 | 1.9445 | 2.0450 | 0.0000 | 8,195.2678 | 8,195.2678 | 1.2709 | 0.0000 | 8,227.0413 |
| **Maximum** | **4.4086** | **38.8301** | **39.3174** | **0.0856** | **0.7518** | **1.9933** | **2.6073** | **0.2117** | **1.9445** | **2.0450** | **0.0000** | **8,195.2678** | **8,195.2678** | **1.2709** | **0.0000** | **8,227.0413** |

CCB IMP Wells - San Luis Obispo County APCD Air District, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB IMP Wells - San Luis Obispo County APCD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | 0.0000 | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | **0.0000** | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.3 Outfall Connection - 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 | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | 0.0000 | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | **0.0000** | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.4 Monitoring Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

## 3.5 Critical Drilling - 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 | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.8100e-003 | 0.1375 | 0.0308 | 3.7000e-004 | 8.3100e-003 | 5.8000e-004 | 8.8900e-003 | 2.2800e-003 | 5.5000e-004 | 2.8300e-003 | | 40.1782 | 40.1782 | 2.2900e-003 | | 40.2354 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0894** | **0.3904** | **0.7277** | **2.5600e-003** | **0.2153** | **2.3300e-003** | **0.2177** | **0.0574** | **2.1900e-003** | **0.0596** | | **261.3699** | **261.3699** | **0.0101** | | **261.6213** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | 0.0000 | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | **0.0000** | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.8100e-003 | 0.1375 | 0.0308 | 3.7000e-004 | 8.3100e-003 | 5.8000e-004 | 8.8900e-003 | 2.2800e-003 | 5.5000e-004 | 2.8300e-003 | | 40.1782 | 40.1782 | 2.2900e-003 | | 40.2354 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0894** | **0.3904** | **0.7277** | **2.5600e-003** | **0.2153** | **2.3300e-003** | **0.2177** | **0.0574** | **2.1900e-003** | **0.0596** | | **261.3699** | **261.3699** | **0.0101** | | **261.6213** |

## 3.6 Groundwater Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

## 3.7 Site Restoration - 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 | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | 0.0000 | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | **0.0000** | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.575581 | 0.029595 | 0.198288 | 0.120539 | 0.026172 | 0.006482 | 0.012911 | 0.019591 | 0.002354 | 0.001214 | 0.005068 | 0.000784 | 0.001422 |

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Unmitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |

## 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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

**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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

## 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**

| 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

# CCB IMP Wells - Mitigated

**San Luis Obispo County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

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| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |

| | | | |
|---|---|---|---|
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.1596 | 1.5399 | 1.4895 | 3.7900e-003 | 0.0437 | 0.0696 | 0.1133 | 0.0115 | 0.0679 | 0.0794 | 0.0000 | 337.6024 | 337.6024 | 0.0409 | 0.0000 | 338.6238 |
| **Maximum** | **0.1596** | **1.5399** | **1.4895** | **3.7900e-003** | **0.0437** | **0.0696** | **0.1133** | **0.0115** | **0.0679** | **0.0794** | **0.0000** | **337.6024** | **337.6024** | **0.0409** | **0.0000** | **338.6238** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.0784 | 0.6984 | 1.7298 | 3.7900e-003 | 0.0437 | 0.0268 | 0.0705 | 0.0115 | 0.0256 | 0.0372 | 0.0000 | 337.6021 | 337.6021 | 0.0409 | 0.0000 | 338.6236 |
| **Maximum** | **0.0784** | **0.6984** | **1.7298** | **3.7900e-003** | **0.0437** | **0.0268** | **0.0705** | **0.0115** | **0.0256** | **0.0372** | **0.0000** | **337.6021** | **337.6021** | **0.0409** | **0.0000** | **338.6236** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **50.89** | **54.65** | **-16.14** | **0.00** | **0.00** | **61.54** | **37.80** | **0.00** | **62.27** | **53.21** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| 1 | 1-1-2021 | 3-31-2021 | 0.9491 | 0.3804 |
| 2 | 4-1-2021 | 6-30-2021 | 0.7209 | 0.3816 |
| 3 | 7-1-2021 | 9-30-2021 | 0.0261 | 0.0103 |
| | | Highest | 0.9491 | 0.3816 |

## 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 | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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**

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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 |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.7000e-004 | 4.7400e-003 | 5.6500e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.6000e-004 | 2.6000e-004 | 0.0000 | 0.6824 | 0.6824 | 2.2000e-004 | 0.0000 | 0.6880 |
| **Total** | **4.7000e-004** | **4.7400e-003** | **5.6500e-003** | **1.0000e-005** | **0.0000** | **2.8000e-004** | **2.8000e-004** | **0.0000** | **2.6000e-004** | **2.6000e-004** | **0.0000** | **0.6824** | **0.6824** | **2.2000e-004** | **0.0000** | **0.6880** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.7000e-004 | 4.7400e-003 | 5.6500e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.6000e-004 | 2.6000e-004 | 0.0000 | 0.6824 | 0.6824 | 2.2000e-004 | 0.0000 | 0.6880 |
| **Total** | **4.7000e-004** | **4.7400e-003** | **5.6500e-003** | **1.0000e-005** | **0.0000** | **2.8000e-004** | **2.8000e-004** | **0.0000** | **2.6000e-004** | **2.6000e-004** | **0.0000** | **0.6824** | **0.6824** | **2.2000e-004** | **0.0000** | **0.6880** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

## 3.3 Outfall Connection - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.0400e-003 | 0.0101 | 0.0138 | 2.0000e-005 | | 5.4000e-004 | 5.4000e-004 | | 5.0000e-004 | 5.0000e-004 | 0.0000 | 1.8169 | 1.8169 | 5.9000e-004 | 0.0000 | 1.8315 |
| **Total** | **1.0400e-003** | **0.0101** | **0.0138** | **2.0000e-005** | | **5.4000e-004** | **5.4000e-004** | | **5.0000e-004** | **5.0000e-004** | **0.0000** | **1.8169** | **1.8169** | **5.9000e-004** | **0.0000** | **1.8315** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.0400e-003 | 0.0101 | 0.0138 | 2.0000e-005 | | 5.4000e-004 | 5.4000e-004 | | 5.0000e-004 | 5.0000e-004 | 0.0000 | 1.8168 | 1.8168 | 5.9000e-004 | 0.0000 | 1.8315 |
| **Total** | **1.0400e-003** | **0.0101** | **0.0138** | **2.0000e-005** | | **5.4000e-004** | **5.4000e-004** | | **5.0000e-004** | **5.0000e-004** | **0.0000** | **1.8168** | **1.8168** | **5.9000e-004** | **0.0000** | **1.8315** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0000e-005 | 4.8000e-004 | 1.4000e-004 | 0.0000 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0956 | 0.0956 | 1.0000e-005 | 0.0000 | 0.0958 |
| Worker | 2.0000e-004 | 1.8000e-004 | 1.5600e-003 | 0.0000 | 4.8000e-004 | 0.0000 | 4.8000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.3890 | 0.3890 | 1.0000e-005 | 0.0000 | 0.3893 |
| **Total** | **2.2000e-004** | **6.6000e-004** | **1.7000e-003** | **0.0000** | **5.0000e-004** | **0.0000** | **5.0000e-004** | **1.4000e-004** | **0.0000** | **1.4000e-004** | **0.0000** | **0.4846** | **0.4846** | **2.0000e-005** | **0.0000** | **0.4850** |

## 3.4 Monitoring Well Installation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0338 | 0.3042 | 0.3280 | 6.5000e-004 | | 0.0158 | 0.0158 | | 0.0155 | 0.0155 | 0.0000 | 56.6502 | 56.6502 | 8.7600e-003 | 0.0000 | 56.8691 |
| **Total** | **0.0338** | **0.3042** | **0.3280** | **6.5000e-004** | | **0.0158** | **0.0158** | | **0.0155** | **0.0155** | **0.0000** | **56.6502** | **56.6502** | **8.7600e-003** | **0.0000** | **56.8691** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0400e-003 | 0.0816 | 0.0205 | 3.2000e-004 | 9.4900e-003 | 4.6000e-004 | 9.9500e-003 | 2.7400e-003 | 4.4000e-004 | 3.1800e-003 | 0.0000 | 30.6170 | 30.6170 | 9.6000e-004 | 0.0000 | 30.6411 |
| Worker | 1.4300e-003 | 1.2400e-003 | 0.0109 | 3.0000e-005 | 3.3700e-003 | 2.0000e-005 | 3.3900e-003 | 9.0000e-004 | 2.0000e-005 | 9.2000e-004 | 0.0000 | 2.7229 | 2.7229 | 8.0000e-005 | 0.0000 | 2.7249 |
| **Total** | **4.4700e-003** | **0.0828** | **0.0314** | **3.5000e-004** | **0.0129** | **4.8000e-004** | **0.0133** | **3.6400e-003** | **4.6000e-004** | **4.1000e-003** | **0.0000** | **33.3399** | **33.3399** | **1.0400e-003** | **0.0000** | **33.3661** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0167 | 0.1267 | 0.3801 | 6.5000e-004 | | 6.8300e-003 | 6.8300e-003 | | 6.5900e-003 | 6.5900e-003 | 0.0000 | 56.6502 | 56.6502 | 8.7600e-003 | 0.0000 | 56.8691 |
| **Total** | **0.0167** | **0.1267** | **0.3801** | **6.5000e-004** | | **6.8300e-003** | **6.8300e-003** | | **6.5900e-003** | **6.5900e-003** | **0.0000** | **56.6502** | **56.6502** | **8.7600e-003** | **0.0000** | **56.8691** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0400e-003 | 0.0816 | 0.0205 | 3.2000e-004 | 9.4900e-003 | 4.6000e-004 | 9.9500e-003 | 2.7400e-003 | 4.4000e-004 | 3.1800e-003 | 0.0000 | 30.6170 | 30.6170 | 9.6000e-004 | 0.0000 | 30.6411 |
| Worker | 1.4300e-003 | 1.2400e-003 | 0.0109 | 3.0000e-005 | 3.3700e-003 | 2.0000e-005 | 3.3900e-003 | 9.0000e-004 | 2.0000e-005 | 9.2000e-004 | 0.0000 | 2.7229 | 2.7229 | 8.0000e-005 | 0.0000 | 2.7249 |
| **Total** | **4.4700e-003** | **0.0828** | **0.0314** | **3.5000e-004** | **0.0129** | **4.8000e-004** | **0.0133** | **3.6400e-003** | **4.6000e-004** | **4.1000e-003** | **0.0000** | **33.3399** | **33.3399** | **1.0400e-003** | **0.0000** | **33.3661** |

## 3.5 Critical Drilling - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.1900e-003 | 0.0000 | 4.1900e-003 | 4.5000e-004 | 0.0000 | 4.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0454 | 0.4036 | 0.4052 | 8.7000e-004 | | 0.0209 | 0.0209 | | 0.0204 | 0.0204 | 0.0000 | 75.5739 | 75.5739 | 0.0120 | 0.0000 | 75.8741 |
| **Total** | **0.0454** | **0.4036** | **0.4052** | **8.7000e-004** | **4.1900e-003** | **0.0209** | **0.0251** | **4.5000e-004** | **0.0204** | **0.0208** | **0.0000** | **75.5739** | **75.5739** | **0.0120** | **0.0000** | **75.8741** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.4700e-003 | 3.3000e-004 | 0.0000 | 9.0000e-005 | 1.0000e-005 | 9.0000e-005 | 2.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.3803 | 0.3803 | 2.0000e-005 | 0.0000 | 0.3809 |
| Vendor | 6.0000e-005 | 2.0000e-003 | 5.9000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.0000e-004 | 3.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.4016 | 0.4016 | 2.0000e-005 | 0.0000 | 0.4022 |
| Worker | 8.6000e-004 | 7.5000e-004 | 6.5500e-003 | 2.0000e-005 | 2.0200e-003 | 1.0000e-005 | 2.0300e-003 | 5.4000e-004 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 1.6337 | 1.6337 | 5.0000e-005 | 0.0000 | 1.6350 |
| **Total** | **9.6000e-004** | **4.2200e-003** | **7.4700e-003** | **2.0000e-005** | **2.2100e-003** | **3.0000e-005** | **2.2200e-003** | **5.9000e-004** | **3.0000e-005** | **6.1000e-004** | **0.0000** | **2.4156** | **2.4156** | **9.0000e-005** | **0.0000** | **2.4180** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.1900e-003 | 0.0000 | 4.1900e-003 | 4.5000e-004 | 0.0000 | 4.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0146 | 0.0841 | 0.4990 | 8.7000e-004 | | 4.7100e-003 | 4.7100e-003 | | 4.4300e-003 | 4.4300e-003 | 0.0000 | 75.5738 | 75.5738 | 0.0120 | 0.0000 | 75.8740 |
| **Total** | **0.0146** | **0.0841** | **0.4990** | **8.7000e-004** | **4.1900e-003** | **4.7100e-003** | **8.9000e-003** | **4.5000e-004** | **4.4300e-003** | **4.8800e-003** | **0.0000** | **75.5738** | **75.5738** | **0.0120** | **0.0000** | **75.8740** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.4700e-003 | 3.3000e-004 | 0.0000 | 9.0000e-005 | 1.0000e-005 | 9.0000e-005 | 2.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.3803 | 0.3803 | 2.0000e-005 | 0.0000 | 0.3809 |
| Vendor | 6.0000e-005 | 2.0000e-003 | 5.9000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.0000e-004 | 3.0000e-005 | 1.0000e-005 | 3.0000e-005 | 0.0000 | 0.4016 | 0.4016 | 2.0000e-005 | 0.0000 | 0.4022 |
| Worker | 8.6000e-004 | 7.5000e-004 | 6.5500e-003 | 2.0000e-005 | 2.0200e-003 | 1.0000e-005 | 2.0300e-003 | 5.4000e-004 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 1.6337 | 1.6337 | 5.0000e-005 | 0.0000 | 1.6350 |
| **Total** | **9.6000e-004** | **4.2200e-003** | **7.4700e-003** | **2.0000e-005** | **2.2100e-003** | **3.0000e-005** | **2.2200e-003** | **5.9000e-004** | **3.0000e-005** | **6.1000e-004** | **0.0000** | **2.4156** | **2.4156** | **9.0000e-005** | **0.0000** | **2.4180** |

## 3.6 Groundwater Well Installation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0579 | 0.5214 | 0.5623 | 1.1200e-003 | | 0.0271 | 0.0271 | | 0.0265 | 0.0265 | 0.0000 | 97.1147 | 97.1147 | 0.0150 | 0.0000 | 97.4900 |
| **Total** | **0.0579** | **0.5214** | **0.5623** | **1.1200e-003** | | **0.0271** | **0.0271** | | **0.0265** | **0.0265** | **0.0000** | **97.1147** | **97.1147** | **0.0150** | **0.0000** | **97.4900** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.2000e-003 | 0.1398 | 0.0352 | 5.4000e-004 | 0.0163 | 7.9000e-004 | 0.0171 | 4.6900e-003 | 7.6000e-004 | 5.4500e-003 | 0.0000 | 52.4863 | 52.4863 | 1.6500e-003 | 0.0000 | 52.5277 |
| Worker | 2.4500e-003 | 2.1300e-003 | 0.0187 | 5.0000e-005 | 5.7800e-003 | 4.0000e-005 | 5.8100e-003 | 1.5400e-003 | 3.0000e-005 | 1.5700e-003 | 0.0000 | 4.6678 | 4.6678 | 1.4000e-004 | 0.0000 | 4.6713 |
| **Total** | **7.6500e-003** | **0.1419** | **0.0539** | **5.9000e-004** | **0.0220** | **8.3000e-004** | **0.0229** | **6.2300e-003** | **7.9000e-004** | **7.0200e-003** | **0.0000** | **57.1541** | **57.1541** | **1.7900e-003** | **0.0000** | **57.1990** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0286 | 0.2172 | 0.6516 | 1.1200e-003 | | 0.0117 | 0.0117 | | 0.0113 | 0.0113 | 0.0000 | 97.1146 | 97.1146 | 0.0150 | 0.0000 | 97.4898 |
| **Total** | **0.0286** | **0.2172** | **0.6516** | **1.1200e-003** | | **0.0117** | **0.0117** | | **0.0113** | **0.0113** | **0.0000** | **97.1146** | **97.1146** | **0.0150** | **0.0000** | **97.4898** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 5.2000e-003 | 0.1398 | 0.0352 | 5.4000e-004 | 0.0163 | 7.9000e-004 | 0.0171 | 4.6900e-003 | 7.6000e-004 | 5.4500e-003 | 0.0000 | 52.4863 | 52.4863 | 1.6500e-003 | 0.0000 | 52.5277 |
| Worker | 2.4500e-003 | 2.1300e-003 | 0.0187 | 5.0000e-005 | 5.7800e-003 | 4.0000e-005 | 5.8100e-003 | 1.5400e-003 | 3.0000e-005 | 1.5700e-003 | 0.0000 | 4.6678 | 4.6678 | 1.4000e-004 | 0.0000 | 4.6713 |
| **Total** | **7.6500e-003** | **0.1419** | **0.0539** | **5.9000e-004** | **0.0220** | **8.3000e-004** | **0.0229** | **6.2300e-003** | **7.9000e-004** | **7.0200e-003** | **0.0000** | **57.1541** | **57.1541** | **1.7900e-003** | **0.0000** | **57.1990** |

## 3.7 Site Restoration - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 6.9900e-003 | 0.0638 | 0.0735 | 1.2000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.4700e-003 | 3.4700e-003 | 0.0000 | 10.5287 | 10.5287 | 1.2500e-003 | 0.0000 | 10.5600 |
| **Total** | **6.9900e-003** | **0.0638** | **0.0735** | **1.2000e-004** | | **3.5700e-003** | **3.5700e-003** | | **3.4700e-003** | **3.4700e-003** | **0.0000** | **10.5287** | **10.5287** | **1.2500e-003** | **0.0000** | **10.5600** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.0000e-005 | 1.3300e-003 | 3.9000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2677 | 0.2677 | 2.0000e-005 | 0.0000 | 0.2681 |
| Worker | 5.7000e-004 | 5.0000e-004 | 4.3600e-003 | 1.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.0891 | 1.0891 | 3.0000e-005 | 0.0000 | 1.0900 |
| **Total** | **6.1000e-004** | **1.8300e-003** | **4.7500e-003** | **1.0000e-005** | **1.4100e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.3569** | **1.3569** | **5.0000e-005** | **0.0000** | **1.3581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 2.9100e-003 | 0.0235 | 0.0787 | 1.2000e-004 | | 1.3400e-003 | 1.3400e-003 | | 1.2500e-003 | 1.2500e-003 | 0.0000 | 10.5287 | 10.5287 | 1.2500e-003 | 0.0000 | 10.5600 |
| **Total** | **2.9100e-003** | **0.0235** | **0.0787** | **1.2000e-004** | | **1.3400e-003** | **1.3400e-003** | | **1.2500e-003** | **1.2500e-003** | **0.0000** | **10.5287** | **10.5287** | **1.2500e-003** | **0.0000** | **10.5600** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.0000e-005 | 1.3300e-003 | 3.9000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.2677 | 0.2677 | 2.0000e-005 | 0.0000 | 0.2681 |
| Worker | 5.7000e-004 | 5.0000e-004 | 4.3600e-003 | 1.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.0891 | 1.0891 | 3.0000e-005 | 0.0000 | 1.0900 |
| **Total** | **6.1000e-004** | **1.8300e-003** | **4.7500e-003** | **1.0000e-005** | **1.4100e-003** | **1.0000e-005** | **1.4300e-003** | **3.8000e-004** | **1.0000e-005** | **3.9000e-004** | **0.0000** | **1.3569** | **1.3569** | **5.0000e-005** | **0.0000** | **1.3581** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.582546 | 0.028575 | 0.198242 | 0.117308 | 0.024121 | 0.006096 | 0.012865 | 0.019735 | 0.002341 | 0.001188 | 0.004913 | 0.000770 | 0.001299 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 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 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 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 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Unmitigated | 0.0154 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.5100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0119 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 3.5100e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0119 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 5.0000e-005 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0000e-004 | 1.0000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| **Total** | **0.0154** | **0.0000** | **5.0000e-005** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0000e-004** | **1.0000e-004** | **0.0000** | **0.0000** | **1.1000e-004** |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 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

| 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

# CCB IMP Wells - Mitigated

**San Luis Obispo County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

CCB IMP Wells - Mitigated - San Luis Obispo County APCD Air District, Winter

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |

| | | | |
|---|---|---|---|
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4204 | 38.8383 | 39.3070 | 0.0855 | 0.7518 | 1.9934 | 2.6073 | 0.2117 | 1.9446 | 2.0450 | 0.0000 | 8,184.9967 | 8,184.9967 | 1.2710 | 0.0000 | 8,216.7715 |
| **Maximum** | **4.4204** | **38.8383** | **39.3070** | **0.0855** | **0.7518** | **1.9934** | **2.6073** | **0.2117** | **1.9446** | **2.0450** | **0.0000** | **8,184.9967** | **8,184.9967** | **1.2710** | **0.0000** | **8,216.7715** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 1.4903 | 11.9299 | 48.2371 | 0.0855 | 0.7518 | 0.4509 | 1.1700 | 0.2117 | 0.4241 | 0.6147 | 0.0000 | 8,184.9967 | 8,184.9967 | 1.2710 | 0.0000 | 8,216.7715 |
| **Maximum** | **1.4903** | **11.9299** | **48.2371** | **0.0855** | **0.7518** | **0.4509** | **1.1700** | **0.2117** | **0.4241** | **0.6147** | **0.0000** | **8,184.9967** | **8,184.9967** | **1.2710** | **0.0000** | **8,216.7715** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **66.29** | **69.28** | **-22.72** | **0.00** | **0.00** | **77.38** | **55.13** | **0.00** | **78.19** | **69.94** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB IMP Wells - Mitigated - San Luis Obispo County APCD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | 0.0000 | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | **0.0000** | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.3 Outfall Connection - 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 | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | 0.0000 | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | **0.0000** | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.4 Monitoring Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9528 | 7.2386 | 21.7202 | 0.0374 | | 0.3906 | 0.3906 | | 0.3766 | 0.3766 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **0.9528** | **7.2386** | **21.7202** | **0.0374** | | **0.3906** | **0.3906** | | **0.3766** | **0.3766** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

## 3.5 Critical Drilling - 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 | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.9200e-003 | 0.1383 | 0.0327 | 3.7000e-004 | 8.3100e-003 | 5.9000e-004 | 8.9100e-003 | 2.2800e-003 | 5.7000e-004 | 2.8500e-003 | | 39.5753 | 39.5753 | 2.3600e-003 | | 39.6343 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1012** | **0.3986** | **0.7173** | **2.4700e-003** | **0.2153** | **2.3700e-003** | **0.2177** | **0.0574** | **2.2400e-003** | **0.0596** | | **251.0988** | **251.0988** | **0.0101** | | **251.3515** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3890 | 8.0125 | 47.5198 | 0.0831 | | 0.4485 | 0.4485 | | 0.4219 | 0.4219 | 0.0000 | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **1.3890** | **8.0125** | **47.5198** | **0.0831** | **0.3986** | **0.4485** | **0.8472** | **0.0431** | **0.4219** | **0.4649** | **0.0000** | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.9200e-003 | 0.1383 | 0.0327 | 3.7000e-004 | 8.3100e-003 | 5.9000e-004 | 8.9100e-003 | 2.2800e-003 | 5.7000e-004 | 2.8500e-003 | | 39.5753 | 39.5753 | 2.3600e-003 | | 39.6343 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1012** | **0.3986** | **0.7173** | **2.4700e-003** | **0.2153** | **2.3700e-003** | **0.2177** | **0.0574** | **2.2400e-003** | **0.0596** | | **251.0988** | **251.0988** | **0.0101** | | **251.3515** |

## 3.6 Groundwater Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9528 | 7.2386 | 21.7202 | 0.0374 | | 0.3906 | 0.3906 | | 0.3766 | 0.3766 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **0.9528** | **7.2386** | **21.7202** | **0.0374** | | **0.3906** | **0.3906** | | **0.3766** | **0.3766** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1761 | 4.6188 | 1.1692 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0253 | 0.1845 | | 1,927.7822 | 1,927.7822 | 0.0608 | | 1,929.3019 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.2671** | **4.6913** | **1.7948** | **0.0198** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,097.9049** | **2,097.9049** | **0.0660** | | **2,099.5539** |

## 3.7 Site Restoration - 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 | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4158 | 3.3502 | 11.2489 | 0.0174 | | 0.1921 | 0.1921 | | 0.1781 | 0.1781 | 0.0000 | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.4158** | **3.3502** | **11.2489** | **0.0174** | | **0.1921** | **0.1921** | | **0.1781** | **0.1781** | **0.0000** | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.582546 | 0.028575 | 0.198242 | 0.117308 | 0.024121 | 0.006096 | 0.012865 | 0.019735 | 0.002341 | 0.001188 | 0.004913 | 0.000770 | 0.001299 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Unmitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |

## 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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

**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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

## 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**

| 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

# CCB IMP Wells - Mitigated

**San Luis Obispo County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 3.05 | 1000sqft | 0.07 | 3,050.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - 3,000 sf per injection well, 25 sf per monitoring well (two per injection well)

Construction Phase - Applicant provided construction schedule for one well.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Grader included only for export calculation.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase. 1 delivery/water truck trip per day. Max trip distance of 300 miles for vendor delivery.

Grading - 79 CY of export per well

Vehicle Trips - OM included in ATF model run.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Electricity use calculated separately.

Water And Wastewater - No water use.

Solid Waste - No solid waste generated by project operation

Construction Off-road Equipment Mitigation - Mitigation

Operational Off-Road Equipment -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_Nonresidential_Exterior | 1525 | 1513 |
| tblAreaCoating | Area_Nonresidential_Interior | 4575 | 4538 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 35.00 |
| tblConstructionPhase | NumDays | 100.00 | 60.00 |
| tblConstructionPhase | NumDays | 100.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 21.00 |
| tblConstructionPhase | NumDays | 1.00 | 5.00 |
| tblConstructionPhase | NumDaysWeek | 5.00 | 7.00 |
| tblEnergyUse | LightingElect | 3.08 | 0.00 |
| tblEnergyUse | NT24E | 3.70 | 0.00 |
| tblEnergyUse | NT24NG | 6.67 | 0.00 |
| tblEnergyUse | T24E | 1.48 | 0.00 |
| tblEnergyUse | T24NG | 19.71 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 79.00 |
| tblOffRoadEquipment | HorsePower | 187.00 | 97.00 |
| tblOffRoadEquipment | LoadFactor | 0.41 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |

| | | | |
|---|---|---|---|
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblSolidWaste | SolidWasteGenerationRate | 3.78 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripLength | 5.00 | 300.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 5.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1.00 | 20.00 |
| tblVehicleTrips | ST_TR | 1.32 | 0.00 |
| tblVehicleTrips | SU_TR | 0.68 | 0.00 |
| tblVehicleTrips | WD_TR | 6.97 | 0.00 |
| tblWater | IndoorWaterUseRate | 705,312.50 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.4086 | 38.8301 | 39.3174 | 0.0856 | 0.7518 | 1.9933 | 2.6073 | 0.2117 | 1.9445 | 2.0450 | 0.0000 | 8,195.2678 | 8,195.2678 | 1.2709 | 0.0000 | 8,227.0413 |
| **Maximum** | **4.4086** | **38.8301** | **39.3174** | **0.0856** | **0.7518** | **1.9933** | **2.6073** | **0.2117** | **1.9445** | **2.0450** | **0.0000** | **8,195.2678** | **8,195.2678** | **1.2709** | **0.0000** | **8,227.0413** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 1.4784 | 11.8111 | 48.2475 | 0.0856 | 0.7518 | 0.4509 | 1.1699 | 0.2117 | 0.4241 | 0.6147 | 0.0000 | 8,195.2678 | 8,195.2678 | 1.2709 | 0.0000 | 8,227.0413 |
| **Maximum** | **1.4784** | **11.8111** | **48.2475** | **0.0856** | **0.7518** | **0.4509** | **1.1699** | **0.2117** | **0.4241** | **0.6147** | **0.0000** | **8,195.2678** | **8,195.2678** | **1.2709** | **0.0000** | **8,227.0413** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **66.46** | **69.58** | **-22.71** | **0.00** | **0.00** | **77.38** | **55.13** | **0.00** | **78.19** | **69.94** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | **0.0000** | **7.1000e-004** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/1/2021 | 1/7/2021 | 5 | 5 | |
| 2 | Outfall Connection | Trenching | 1/8/2021 | 1/14/2021 | 5 | 5 | |
| 3 | Monitoring Well Installation | Building Construction | 1/15/2021 | 3/4/2021 | 5 | 35 | |
| 4 | Critical Drilling | Grading | 3/5/2021 | 3/25/2021 | 7 | 21 | |
| 5 | Groundwater Well Installation | Building Construction | 3/26/2021 | 6/17/2021 | 5 | 60 | |
| 6 | Site Restoration | Building Construction | 6/18/2021 | 7/7/2021 | 5 | 14 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB IMP Wells - Mitigated - San Luis Obispo County APCD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Outfall Connection | Excavators | 1 | 8.00 | 158 | 0.38 |
| Outfall Connection | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Monitoring Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Monitoring Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Monitoring Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Monitoring Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Monitoring Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Critical Drilling | Air Compressors | 1 | 24.00 | 78 | 0.48 |
| Critical Drilling | Bore/Drill Rigs | 1 | 24.00 | 221 | 0.50 |
| Critical Drilling | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Critical Drilling | Generator Sets | 2 | 24.00 | 84 | 0.74 |
| Critical Drilling | Graders | 1 | 6.00 | 97 | 0.37 |
| Groundwater Well Installation | Air Compressors | 1 | 8.00 | 78 | 0.48 |
| Groundwater Well Installation | Bore/Drill Rigs | 1 | 8.00 | 221 | 0.50 |
| Groundwater Well Installation | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Groundwater Well Installation | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Pumps | 1 | 8.00 | 84 | 0.74 |
| Groundwater Well Installation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Restoration | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Restoration | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Site Restoration | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 1 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Outfall Connection | 2 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Monitoring Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Critical Drilling | 6 | 20.00 | 2.00 | 10.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Groundwater Well Installation | 7 | 20.00 | 2.00 | 0.00 | 13.00 | 300.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Restoration | 4 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1873 | 1.8958 | 2.2602 | 3.1100e-003 | | 0.1118 | 0.1118 | | 0.1028 | 0.1028 | 0.0000 | 300.9001 | 300.9001 | 0.0973 | | 303.3330 |
| **Total** | **0.1873** | **1.8958** | **2.2602** | **3.1100e-003** | **0.0000** | **0.1118** | **0.1118** | **0.0000** | **0.1028** | **0.1028** | **0.0000** | **300.9001** | **300.9001** | **0.0973** | | **303.3330** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.3 Outfall Connection - 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 | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4165 | 4.0492 | 5.5321 | 8.2700e-003 | | 0.2162 | 0.2162 | | 0.1989 | 0.1989 | 0.0000 | 801.0920 | 801.0920 | 0.2591 | | 807.5693 |
| **Total** | **0.4165** | **4.0492** | **5.5321** | **8.2700e-003** | | **0.2162** | **0.2162** | | **0.1989** | **0.1989** | **0.0000** | **801.0920** | **801.0920** | **0.2591** | | **807.5693** |

## 3.3 Outfall Connection - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.4 Monitoring Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9528 | 7.2386 | 21.7202 | 0.0374 | | 0.3906 | 0.3906 | | 0.3766 | 0.3766 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **0.9528** | **7.2386** | **21.7202** | **0.0374** | | **0.3906** | **0.3906** | | **0.3766** | **0.3766** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.4 Monitoring Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

## 3.5 Critical Drilling - 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 | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.3192 | 38.4397 | 38.5897 | 0.0831 | | 1.9910 | 1.9910 | | 1.9423 | 1.9423 | | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **4.3192** | **38.4397** | **38.5897** | **0.0831** | **0.3986** | **1.9910** | **2.3896** | **0.0431** | **1.9423** | **1.9854** | | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.8100e-003 | 0.1375 | 0.0308 | 3.7000e-004 | 8.3100e-003 | 5.8000e-004 | 8.8900e-003 | 2.2800e-003 | 5.5000e-004 | 2.8300e-003 | | 40.1782 | 40.1782 | 2.2900e-003 | | 40.2354 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0894** | **0.3904** | **0.7277** | **2.5600e-003** | **0.2153** | **2.3300e-003** | **0.2177** | **0.0574** | **2.1900e-003** | **0.0596** | | **261.3699** | **261.3699** | **0.0101** | | **261.6213** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3986 | 0.0000 | 0.3986 | 0.0431 | 0.0000 | 0.0431 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3890 | 8.0125 | 47.5198 | 0.0831 | | 0.4485 | 0.4485 | | 0.4219 | 0.4219 | 0.0000 | 7,933.8979 | 7,933.8979 | 1.2609 | | 7,965.4200 |
| **Total** | **1.3890** | **8.0125** | **47.5198** | **0.0831** | **0.3986** | **0.4485** | **0.8472** | **0.0431** | **0.4219** | **0.4649** | **0.0000** | **7,933.8979** | **7,933.8979** | **1.2609** | | **7,965.4200** |

## 3.5 Critical Drilling - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 3.8100e-003 | 0.1375 | 0.0308 | 3.7000e-004 | 8.3100e-003 | 5.8000e-004 | 8.8900e-003 | 2.2800e-003 | 5.5000e-004 | 2.8300e-003 | | 40.1782 | 40.1782 | 2.2900e-003 | | 40.2354 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0894** | **0.3904** | **0.7277** | **2.5600e-003** | **0.2153** | **2.3300e-003** | **0.2177** | **0.0574** | **2.1900e-003** | **0.0596** | | **261.3699** | **261.3699** | **0.0101** | | **261.6213** |

## 3.6 Groundwater Well Installation - 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 | 1.9295 | 17.3810 | 18.7436 | 0.0374 | | 0.9047 | 0.9047 | | 0.8834 | 0.8834 | | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **1.9295** | **17.3810** | **18.7436** | **0.0374** | | **0.9047** | **0.9047** | | **0.8834** | **0.8834** | | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9528 | 7.2386 | 21.7202 | 0.0374 | | 0.3906 | 0.3906 | | 0.3766 | 0.3766 | 0.0000 | 3,568.3545 | 3,568.3545 | 0.5515 | | 3,582.1427 |
| **Total** | **0.9528** | **7.2386** | **21.7202** | **0.0374** | | **0.3906** | **0.3906** | | **0.3766** | **0.3766** | **0.0000** | **3,568.3545** | **3,568.3545** | **0.5515** | | **3,582.1427** |

## 3.6 Groundwater Well Installation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1725 | 4.5086 | 1.1816 | 0.0181 | 0.5540 | 0.0264 | 0.5804 | 0.1593 | 0.0252 | 0.1845 | | 1,929.0927 | 1,929.0927 | 0.0609 | | 1,930.6144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.2522** | **4.5724** | **1.8262** | **0.0199** | **0.7518** | **0.0276** | **0.7794** | **0.2117** | **0.0264** | **0.2381** | | **2,107.5732** | **2,107.5732** | **0.0662** | | **2,109.2289** |

## 3.7 Site Restoration - 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 | 0.9991 | 9.1125 | 10.5056 | 0.0174 | | 0.5100 | 0.5100 | | 0.4961 | 0.4961 | | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.9991** | **9.1125** | **10.5056** | **0.0174** | | **0.5100** | **0.5100** | | **0.4961** | **0.4961** | | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

## 3.7 Site Restoration - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.4158 | 3.3502 | 11.2489 | 0.0174 | | 0.1921 | 0.1921 | | 0.1781 | 0.1781 | 0.0000 | 1,657.9923 | 1,657.9923 | 0.1968 | | 1,662.9126 |
| **Total** | **0.4158** | **3.3502** | **11.2489** | **0.0174** | | **0.1921** | **0.1921** | | **0.1781** | **0.1781** | **0.0000** | **1,657.9923** | **1,657.9923** | **0.1968** | | **1,662.9126** |

### 3.7 Site Restoration - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 5.00 | 5.00 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.582546 | 0.028575 | 0.198242 | 0.117308 | 0.024121 | 0.006096 | 0.012865 | 0.019735 | 0.002341 | 0.001188 | 0.004913 | 0.000770 | 0.001299 |

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 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 |
| **Total** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| Unmitigated | 0.0845 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |

## 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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

**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 | 0.0192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0653 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.1000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 6.7000e-004 | 6.7000e-004 | 0.0000 | | 7.1000e-004 |
| **Total** | **0.0845** | **0.0000** | **3.1000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **6.7000e-004** | **6.7000e-004** | **0.0000** | | **7.1000e-004** |

## 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**

| 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

## Road Construction Emissions Model, Version 9.0.0

**Daily Emission Estimates for ->** CCB Agricultural Irrigation Pipelines

| Project Phases (Pounds) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (lbs/day) | Exhaust PM10 (lbs/day) | Fugitive Dust PM10 (lbs/day) | Total PM2.5 (lbs/day) | Exhaust PM2.5 (lbs/day) | Fugitive Dust PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 1.06 | 10.32 | 9.09 | 0.92 | 0.52 | 0.40 | 0.54 | 0.45 | 0.08 | 0.02 | 2,131.76 | 0.25 | 0.10 | 2,167.81 |
| **Grading/Excavation** | 0.94 | 8.26 | 9.84 | 0.85 | 0.45 | 0.40 | 0.43 | 0.35 | 0.08 | 0.03 | 2,722.42 | 0.29 | 0.25 | 2,804.79 |
| **Drainage/Utilities/Sub-Grade** | 3.16 | 26.60 | 27.96 | 1.68 | 1.28 | 0.40 | 1.25 | 1.17 | 0.08 | 0.08 | 7,605.04 | 1.51 | 0.23 | 7,712.05 |
| **Paving** | 1.29 | 10.39 | 11.35 | 0.54 | 0.54 | 0.00 | 0.46 | 0.46 | 0.00 | 0.03 | 2,759.76 | 0.66 | 0.08 | 2,800.79 |
| **Maximum (pounds/day)** | 3.16 | 26.60 | 27.96 | 1.68 | 1.28 | 0.40 | 1.25 | 1.17 | 0.08 | 0.08 | 7,605.04 | 1.51 | 0.25 | 7,712.05 |
| **Total (tons/construction project)** | 0.22 | 1.89 | 2.04 | 0.14 | 0.10 | 0.04 | 0.09 | 0.08 | 0.01 | 0.01 | 545.65 | 0.09 | 0.03 | 556.07 |

Notes:

| | |
|---|---|
| Project Start Year -> | 2021 |
| Project Length (months) -> | 12 |
| Total Project Area (acres) -> | 3 |
| Maximum Area Disturbed/Day (acres) -> | 0 |
| Water Truck Used? -> | Yes |

| | Total Material Imported/Exported Volume ($yd^3$/day) | | Daily VMT (miles/day) | | | |
|---|---|---|---|---|---|---|
| Phase | Soil | Asphalt | Soil Hauling | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing | 0 | 84 | 0 | 100 | 520 | 20 |
| Grading/Excavation | 337 | 0 | 340 | 0 | 520 | 20 |
| Drainage/Utilities/Sub-Grade | 222 | 0 | 240 | 0 | 520 | 20 |
| Paving | 0 | 56 | 0 | 60 | 520 | 20 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

**Total Emission Estimates by Phase for ->** CCB Agricultural Irrigation Pipelines

| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e) | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | Total PM10 (tons/phase) | Exhaust PM10 (tons/phase) | Fugitive Dust PM10 (tons/phase) | Total PM2.5 (tons/phase) | Exhaust PM2.5 (tons/phase) | Fugitive Dust PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 0.01 | 0.14 | 0.12 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 28.14 | 0.00 | 0.00 | 25.96 |
| **Grading/Excavation** | 0.06 | 0.49 | 0.58 | 0.05 | 0.03 | 0.02 | 0.03 | 0.02 | 0.00 | 0.00 | 161.71 | 0.02 | 0.01 | 151.14 |
| **Drainage/Utilities/Sub-Grade** | 0.13 | 1.05 | 1.11 | 0.07 | 0.05 | 0.02 | 0.05 | 0.05 | 0.00 | 0.00 | 301.16 | 0.06 | 0.01 | 277.05 |
| **Paving** | 0.03 | 0.21 | 0.22 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 54.64 | 0.01 | 0.00 | 50.31 |
| **Maximum (tons/phase)** | 0.13 | 1.05 | 1.11 | 0.07 | 0.05 | 0.02 | 0.05 | 0.05 | 0.00 | 0.00 | 301.16 | 0.06 | 0.01 | 277.05 |
| **Total (tons/construction project)** | 0.22 | 1.89 | 2.04 | 0.14 | 0.10 | 0.04 | 0.09 | 0.08 | 0.01 | 0.01 | 545.65 | 0.09 | 0.03 | 504.47 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

## Road Construction Emissions Model, Version 9.0.0

**Daily Emission Estimates for ->** CCB Water Distribution Pipelines

| Project Phases (Pounds) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (lbs/day) | Exhaust PM10 (lbs/day) | Fugitive Dust PM10 (lbs/day) | Total PM2.5 (lbs/day) | Exhaust PM2.5 (lbs/day) | Fugitive Dust PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 1.04 | 10.27 | 8.80 | 0.91 | 0.51 | 0.40 | 0.53 | 0.45 | 0.08 | 0.02 | 2,049.76 | 0.25 | 0.09 | 2,081.94 |
| **Grading/Excavation** | 0.92 | 8.21 | 9.55 | 0.84 | 0.44 | 0.40 | 0.43 | 0.34 | 0.08 | 0.03 | 2,640.41 | 0.29 | 0.24 | 2,718.92 |
| **Drainage/Utilities/Sub-Grade** | 3.22 | 26.75 | 28.84 | 1.71 | 1.31 | 0.40 | 1.27 | 1.19 | 0.08 | 0.08 | 7,851.04 | 1.51 | 0.27 | 7,969.65 |
| **Paving** | 1.30 | 10.41 | 11.46 | 0.54 | 0.54 | 0.00 | 0.46 | 0.46 | 0.00 | 0.03 | 2,760.96 | 0.66 | 0.08 | 2,802.03 |
| **Maximum (pounds/day)** | 3.22 | 26.75 | 28.84 | 1.71 | 1.31 | 0.40 | 1.27 | 1.19 | 0.08 | 0.08 | 7,851.04 | 1.51 | 0.27 | 7,969.65 |
| **Total (tons/construction project)** | 0.11 | 0.94 | 1.03 | 0.07 | 0.05 | 0.02 | 0.05 | 0.04 | 0.00 | 0.00 | 274.73 | 0.05 | 0.01 | 280.03 |

Notes:

| | |
|---|---|
| Project Start Year -> | 2021 |
| Project Length (months) -> | 6 |
| Total Project Area (acres) -> | 1 |
| Maximum Area Disturbed/Day (acres) -> | 0 |
| Water Truck Used? -> | Yes |

| | Total Material Imported/Exported Volume ($yd^3$/day) | | Daily VMT (miles/day) | | | |
|---|---|---|---|---|---|---|
| Phase | Soil | Asphalt | Soil Hauling | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing | 0 | 76 | 0 | 80 | 520 | 20 |
| Grading/Excavation | 303 | 0 | 320 | 0 | 520 | 20 |
| Drainage/Utilities/Sub-Grade | 300 | 0 | 300 | 0 | 520 | 20 |
| Paving | 0 | 51 | 0 | 60 | 520 | 20 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

**Total Emission Estimates by Phase for ->** CCB Water Distribution Pipelines

| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e) | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | Total PM10 (tons/phase) | Exhaust PM10 (tons/phase) | Fugitive Dust PM10 (tons/phase) | Total PM2.5 (tons/phase) | Exhaust PM2.5 (tons/phase) | Fugitive Dust PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 0.01 | 0.07 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.53 | 0.00 | 0.00 | 12.47 |
| **Grading/Excavation** | 0.03 | 0.24 | 0.28 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 78.42 | 0.01 | 0.01 | 73.26 |
| **Drainage/Utilities/Sub-Grade** | 0.06 | 0.53 | 0.57 | 0.03 | 0.03 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 155.45 | 0.03 | 0.01 | 143.15 |
| **Paving** | 0.01 | 0.10 | 0.11 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.33 | 0.01 | 0.00 | 25.17 |
| **Maximum (tons/phase)** | 0.06 | 0.53 | 0.57 | 0.03 | 0.03 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 155.45 | 0.03 | 0.01 | 143.15 |
| **Total (tons/construction project)** | 0.11 | 0.94 | 1.03 | 0.07 | 0.05 | 0.02 | 0.05 | 0.04 | 0.00 | 0.00 | 274.73 | 0.05 | 0.01 | 254.04 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

# CCB Advanced Treatment Facility - 2023

**San Luis Obispo County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Area Mitigation - x

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |

| | | | |
|---|---|---|---|
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |

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| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | PhaseName | | Site Preparation |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.5261 | 4.4309 | 4.5116 | 7.9100e-003 | 0.1314 | 0.2256 | 0.3569 | 0.0494 | 0.2172 | 0.2666 | 0.0000 | 677.2207 | 677.2207 | 0.1166 | 0.0000 | 680.1351 |
| 2022 | 0.1807 | 0.4082 | 0.4901 | 8.4000e-004 | 4.3400e-003 | 0.0204 | 0.0247 | 1.1600e-003 | 0.0196 | 0.0208 | 0.0000 | 71.7921 | 71.7921 | 0.0122 | 0.0000 | 72.0968 |
| **Maximum** | **0.5261** | **4.4309** | **4.5116** | **7.9100e-003** | **0.1314** | **0.2256** | **0.3569** | **0.0494** | **0.2172** | **0.2666** | **0.0000** | **677.2207** | **677.2207** | **0.1166** | **0.0000** | **680.1351** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.5261 | 4.4309 | 4.5116 | 7.9100e-003 | 0.1314 | 0.2256 | 0.3569 | 0.0494 | 0.2172 | 0.2666 | 0.0000 | 677.2200 | 677.2200 | 0.1166 | 0.0000 | 680.1343 |
| 2022 | 0.1807 | 0.4082 | 0.4901 | 8.4000e-004 | 4.3400e-003 | 0.0204 | 0.0247 | 1.1600e-003 | 0.0196 | 0.0208 | 0.0000 | 71.7920 | 71.7920 | 0.0122 | 0.0000 | 72.0967 |
| **Maximum** | **0.5261** | **4.4309** | **4.5116** | **7.9100e-003** | **0.1314** | **0.2256** | **0.3569** | **0.0494** | **0.2172** | **0.2666** | **0.0000** | **677.2200** | **677.2200** | **0.1166** | **0.0000** | **680.1343** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| 1 | 1-1-2021 | 3-31-2021 | 1.0529 | 1.0529 |
| 2 | 4-1-2021 | 6-30-2021 | 1.2905 | 1.2905 |
| 3 | 7-1-2021 | 9-30-2021 | 1.3047 | 1.3047 |
| 4 | 10-1-2021 | 12-31-2021 | 1.3053 | 1.3053 |
| 5 | 1-1-2022 | 3-31-2022 | 0.6046 | 0.6046 |
| | | Highest | 1.3053 | 1.3053 |

## 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 | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6634 | 61.6634 | 1.9200e-003 | 9.1000e-004 | 61.9828 |
| Mobile | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1244** | **0.0518** | **0.2090** | **7.0000e-004** | **0.0626** | **2.8600e-003** | **0.0655** | **0.0166** | **2.8300e-003** | **0.0195** | **7.9291** | **111.2704** | **119.1995** | **0.4181** | **4.5000e-003** | **130.9935** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6634 | 61.6634 | 1.9200e-003 | 9.1000e-004 | 61.9828 |
| Mobile | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1244** | **0.0518** | **0.2090** | **7.0000e-004** | **0.0626** | **2.8600e-003** | **0.0655** | **0.0166** | **2.8300e-003** | **0.0195** | **7.9291** | **111.2704** | **119.1995** | **0.4181** | **4.5000e-003** | **130.9935** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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**

CCB Advanced Treatment Facility - 2023 - San Luis Obispo County APCD Air District, Annual

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB Advanced Treatment Facility - 2023 - San Luis Obispo County APCD Air District, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8500e-003 | 0.0450 | 0.0260 | 6.0000e-005 | | 1.9200e-003 | 1.9200e-003 | | 1.7600e-003 | 1.7600e-003 | 0.0000 | 4.9470 | 4.9470 | 1.6000e-003 | 0.0000 | 4.9870 |
| **Total** | **3.8500e-003** | **0.0450** | **0.0260** | **6.0000e-005** | **2.6500e-003** | **1.9200e-003** | **4.5700e-003** | **2.9000e-004** | **1.7600e-003** | **2.0500e-003** | **0.0000** | **4.9470** | **4.9470** | **1.6000e-003** | **0.0000** | **4.9870** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8500e-003 | 0.0450 | 0.0260 | 6.0000e-005 | | 1.9200e-003 | 1.9200e-003 | | 1.7600e-003 | 1.7600e-003 | 0.0000 | 4.9469 | 4.9469 | 1.6000e-003 | 0.0000 | 4.9869 |
| **Total** | **3.8500e-003** | **0.0450** | **0.0260** | **6.0000e-005** | **2.6500e-003** | **1.9200e-003** | **4.5700e-003** | **2.9000e-004** | **1.7600e-003** | **2.0500e-003** | **0.0000** | **4.9469** | **4.9469** | **1.6000e-003** | **0.0000** | **4.9869** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

## 3.3 Grading - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0447 | 0.5006 | 0.2985 | 6.2000e-004 | | 0.0213 | 0.0213 | | 0.0197 | 0.0197 | 0.0000 | 54.5543 | 54.5543 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0447** | **0.5006** | **0.2985** | **6.2000e-004** | **0.0999** | **0.0213** | **0.1212** | **0.0414** | **0.0197** | **0.0610** | **0.0000** | **54.5543** | **54.5543** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0447 | 0.5006 | 0.2985 | 6.2000e-004 | | 0.0213 | 0.0213 | | 0.0197 | 0.0197 | 0.0000 | 54.5542 | 54.5542 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0447** | **0.5006** | **0.2985** | **6.2000e-004** | **0.0999** | **0.0213** | **0.1212** | **0.0414** | **0.0197** | **0.0610** | **0.0000** | **54.5542** | **54.5542** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

### Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.4645 | 3.7844 | 4.0837 | 6.8100e-003 | | 0.2019 | 0.2019 | | 0.1954 | 0.1954 | 0.0000 | 578.1714 | 578.1714 | 0.0956 | 0.0000 | 580.5625 |
| **Total** | **0.4645** | **3.7844** | **4.0837** | **6.8100e-003** | | **0.2019** | **0.2019** | | **0.1954** | **0.1954** | **0.0000** | **578.1714** | **578.1714** | **0.0956** | **0.0000** | **580.5625** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.4645 | 3.7844 | 4.0837 | 6.8100e-003 | | 0.2019 | 0.2019 | | 0.1954 | 0.1954 | 0.0000 | 578.1707 | 578.1707 | 0.0956 | 0.0000 | 580.5618 |
| **Total** | **0.4645** | **3.7844** | **4.0837** | **6.8100e-003** | | **0.2019** | **0.2019** | | **0.1954** | **0.1954** | **0.0000** | **578.1707** | **578.1707** | **0.0956** | **0.0000** | **580.5618** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3472 | 0.4089 | 6.9000e-004 | | 0.0175 | 0.0175 | | 0.0169 | 0.0169 | 0.0000 | 58.3563 | 58.3563 | 9.4800e-003 | 0.0000 | 58.5934 |
| **Total** | **0.0428** | **0.3472** | **0.4089** | **6.9000e-004** | | **0.0175** | **0.0175** | | **0.0169** | **0.0169** | **0.0000** | **58.3563** | **58.3563** | **9.4800e-003** | **0.0000** | **58.5934** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3472 | 0.4089 | 6.9000e-004 | | 0.0175 | 0.0175 | | 0.0169 | 0.0169 | 0.0000 | 58.3562 | 58.3562 | 9.4800e-003 | 0.0000 | 58.5933 |
| **Total** | **0.0428** | **0.3472** | **0.4089** | **6.9000e-004** | | **0.0175** | **0.0175** | | **0.0169** | **0.0169** | **0.0000** | **58.3562** | **58.3562** | **9.4800e-003** | **0.0000** | **58.5933** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.7100e-003** | **0.0467** | **0.0585** | **9.0000e-005** | | **2.4400e-003** | **2.4400e-003** | | **2.2500e-003** | **2.2500e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.7100e-003** | **0.0467** | **0.0585** | **9.0000e-005** | | **2.4400e-003** | **2.4400e-003** | | **2.2500e-003** | **2.2500e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Unmitigated | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4699 | 26.4699 | 1.2400e-003 | 2.7000e-004 | 26.5802 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4699 | 26.4699 | 1.2400e-003 | 2.7000e-004 | 26.5802 |
| NaturalGas Mitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| NaturalGas Unmitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195400 | 26.4699 | 1.2400e-003 | 2.7000e-004 | 26.5802 |
| **Total** | | **26.4699** | **1.2400e-003** | **2.7000e-004** | **26.5802** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195400 | 26.4699 | 1.2400e-003 | 2.7000e-004 | 26.5802 |
| **Total** | | **26.4699** | **1.2400e-003** | **2.7000e-004** | **26.5802** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Unmitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| Unmitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Unmitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

## 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

| 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

# CCB Advanced Treatment Facility - 2023

**San Luis Obispo County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Area Mitigation - x

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |

| | | | |
|---|---|---|---|
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | PhaseName | | Site Preparation |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3711 | 46.0756 | 38.2679 | 0.0653 | 9.0293 | 1.8677 | 10.8970 | 3.6910 | 1.7954 | 5.4104 | 0.0000 | 6,141.3416 | 6,141.3416 | 1.7304 | 0.0000 | 6,165.8452 |
| 2022 | 26.3620 | 32.1653 | 37.9057 | 0.0653 | 0.2256 | 1.5909 | 1.8165 | 0.0605 | 1.5412 | 1.6017 | 0.0000 | 6,135.2498 | 6,135.2498 | 0.9627 | 0.0000 | 6,159.3168 |
| **Maximum** | **26.3620** | **46.0756** | **38.2679** | **0.0653** | **9.0293** | **1.8677** | **10.8970** | **3.6910** | **1.7954** | **5.4104** | **0.0000** | **6,141.3416** | **6,141.3416** | **1.7304** | **0.0000** | **6,165.8452** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3711 | 46.0756 | 38.2679 | 0.0653 | 9.0293 | 1.8677 | 10.8970 | 3.6910 | 1.7954 | 5.4104 | 0.0000 | 6,141.3416 | 6,141.3416 | 1.7304 | 0.0000 | 6,165.8452 |
| 2022 | 26.3620 | 32.1653 | 37.9057 | 0.0653 | 0.2256 | 1.5909 | 1.8165 | 0.0605 | 1.5412 | 1.6017 | 0.0000 | 6,135.2498 | 6,135.2498 | 0.9627 | 0.0000 | 6,159.3168 |
| **Maximum** | **26.3620** | **46.0756** | **38.2679** | **0.0653** | **9.0293** | **1.8677** | **10.8970** | **3.6910** | **1.7954** | **5.4104** | **0.0000** | **6,141.3416** | **6,141.3416** | **1.7304** | **0.0000** | **6,165.8452** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| **Total** | **0.6828** | **0.2864** | **1.1516** | **3.8500e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **490.5654** | **490.5654** | **0.0121** | **3.9000e-003** | **492.0300** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| **Total** | **0.6828** | **0.2864** | **1.1516** | **3.8500e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **490.5654** | **490.5654** | **0.0121** | **3.9000e-003** | **492.0300** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB Advanced Treatment Facility - 2023 - San Luis Obispo County APCD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

CCB Advanced Treatment Facility - 2023 - San Luis Obispo County APCD Air District, Winter

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | 0.0000 | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | **0.0000** | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0647 | 2.2862 | 0.5406 | 6.0600e-003 | 0.1374 | 9.8100e-003 | 0.1472 | 0.0376 | 9.3800e-003 | 0.0470 | | 654.0253 | 654.0253 | 0.0390 | | 654.9997 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1620** | **2.5464** | **1.2252** | **8.1600e-003** | **0.3444** | **0.0116** | **0.3560** | **0.0928** | **0.0111** | **0.1038** | | **865.5488** | **865.5488** | **0.0467** | | **866.7169** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | 0.0000 | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | **0.0000** | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0647 | 2.2862 | 0.5406 | 6.0600e-003 | 0.1374 | 9.8100e-003 | 0.1472 | 0.0376 | 9.3800e-003 | 0.0470 | | 654.0253 | 654.0253 | 0.0390 | | 654.9997 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1620** | **2.5464** | **1.2252** | **8.1600e-003** | **0.3444** | **0.0116** | **0.3560** | **0.0928** | **0.0111** | **0.1038** | | **865.5488** | **865.5488** | **0.0467** | | **866.7169** |

## 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 | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0189 | 0.5634 | 0.1772 | 1.1700e-003 | 0.0279 | 1.6800e-003 | 0.0295 | 8.0200e-003 | 1.6100e-003 | 9.6300e-003 | | 124.2021 | 124.2021 | 7.7300e-003 | | 124.3954 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1099** | **0.6358** | **0.8027** | **2.8800e-003** | **0.2256** | **2.9000e-003** | **0.2285** | **0.0605** | **2.7400e-003** | **0.0632** | | **294.3249** | **294.3249** | **0.0129** | | **294.6475** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | 0.0000 | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | **0.0000** | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0189 | 0.5634 | 0.1772 | 1.1700e-003 | 0.0279 | 1.6800e-003 | 0.0295 | 8.0200e-003 | 1.6100e-003 | 9.6300e-003 | | 124.2021 | 124.2021 | 7.7300e-003 | | 124.3954 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1099** | **0.6358** | **0.8027** | **2.8800e-003** | **0.2256** | **2.9000e-003** | **0.2285** | **0.0605** | **2.7400e-003** | **0.0632** | | **294.3249** | **294.3249** | **0.0129** | | **294.6475** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0175 | 0.5354 | 0.1638 | 1.1600e-003 | 0.0279 | 1.4800e-003 | 0.0294 | 8.0300e-003 | 1.4200e-003 | 9.4500e-003 | | 123.3206 | 123.3206 | 7.6400e-003 | | 123.5116 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.1031** | **0.6005** | **0.7364** | **2.8100e-003** | **0.2256** | **2.6700e-003** | **0.2283** | **0.0605** | **2.5200e-003** | **0.0630** | | **287.3629** | **287.3629** | **0.0123** | | **287.6696** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | 0.0000 | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | **0.0000** | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0175 | 0.5354 | 0.1638 | 1.1600e-003 | 0.0279 | 1.4800e-003 | 0.0294 | 8.0300e-003 | 1.4200e-003 | 9.4500e-003 | | 123.3206 | 123.3206 | 7.6400e-003 | | 123.5116 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.1031** | **0.6005** | **0.7364** | **2.8100e-003** | **0.2256** | **2.6700e-003** | **0.2283** | **0.0605** | **2.5200e-003** | **0.0630** | | **287.3629** | **287.3629** | **0.0123** | | **287.6696** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | **0.0000** | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| Unmitigated | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| NaturalGas Unmitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1806.85 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

### 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.80685 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Unmitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |

## 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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

**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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

## 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**

| 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

# CCB Advanced Treatment Facility - 2023

**San Luis Obispo County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Area Mitigation - x

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |

| | | | |
|---|---|---|---|
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 0.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | PhaseName | | Site Preparation |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Grading |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | PhaseName | | Building Construction |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3586 | 46.0546 | 38.2664 | 0.0654 | 9.0293 | 1.8674 | 10.8968 | 3.6910 | 1.7953 | 5.4102 | 0.0000 | 6,153.6310 | 6,153.6310 | 1.7292 | 0.0000 | 6,178.1265 |
| 2022 | 26.3512 | 32.1615 | 37.9051 | 0.0654 | 0.2256 | 1.5908 | 1.8164 | 0.0605 | 1.5411 | 1.6016 | 0.0000 | 6,147.2723 | 6,147.2723 | 0.9624 | 0.0000 | 6,171.3310 |
| **Maximum** | **26.3512** | **46.0546** | **38.2664** | **0.0654** | **9.0293** | **1.8674** | **10.8968** | **3.6910** | **1.7953** | **5.4102** | **0.0000** | **6,153.6310** | **6,153.6310** | **1.7292** | **0.0000** | **6,178.1265** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3586 | 46.0546 | 38.2664 | 0.0654 | 9.0293 | 1.8674 | 10.8968 | 3.6910 | 1.7953 | 5.4102 | 0.0000 | 6,153.6310 | 6,153.6310 | 1.7292 | 0.0000 | 6,178.1265 |
| 2022 | 26.3512 | 32.1615 | 37.9051 | 0.0654 | 0.2256 | 1.5908 | 1.8164 | 0.0605 | 1.5411 | 1.6016 | 0.0000 | 6,147.2723 | 6,147.2723 | 0.9624 | 0.0000 | 6,171.3310 |
| **Maximum** | **26.3512** | **46.0546** | **38.2664** | **0.0654** | **9.0293** | **1.8674** | **10.8968** | **3.6910** | **1.7953** | **5.4102** | **0.0000** | **6,153.6310** | **6,153.6310** | **1.7292** | **0.0000** | **6,178.1265** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| **Total** | **0.6861** | **0.2734** | **1.1847** | **3.9900e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **504.1702** | **504.1702** | **0.0124** | **3.9000e-003** | **505.6426** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| **Total** | **0.6861** | **0.2734** | **1.1847** | **3.9900e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **504.1702** | **504.1702** | **0.0124** | **3.9000e-003** | **505.6426** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB Advanced Treatment Facility - 2023 - San Luis Obispo County APCD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | 0.0000 | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | **0.0000** | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0630 | 2.2726 | 0.5094 | 6.1500e-003 | 0.1374 | 9.5800e-003 | 0.1470 | 0.0376 | 9.1700e-003 | 0.0468 | | 663.9887 | 663.9887 | 0.0378 | | 664.9331 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.1486** | **2.5254** | **1.2063** | **8.3400e-003** | **0.3444** | **0.0113** | **0.3557** | **0.0928** | **0.0108** | **0.1036** | | **885.1804** | **885.1804** | **0.0456** | | **886.3190** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | 0.0000 | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | **0.0000** | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0630 | 2.2726 | 0.5094 | 6.1500e-003 | 0.1374 | 9.5800e-003 | 0.1470 | 0.0376 | 9.1700e-003 | 0.0468 | | 663.9887 | 663.9887 | 0.0378 | | 664.9331 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.1486** | **2.5254** | **1.2063** | **8.3400e-003** | **0.3444** | **0.0113** | **0.3557** | **0.0928** | **0.0108** | **0.1036** | | **885.1804** | **885.1804** | **0.0456** | | **886.3190** |

## 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 | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0178 | 0.5671 | 0.1565 | 1.2000e-003 | 0.0279 | 1.5900e-003 | 0.0295 | 8.0200e-003 | 1.5200e-003 | 9.5500e-003 | | 128.1339 | 128.1339 | 7.2200e-003 | | 128.3144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0975** | **0.6310** | **0.8012** | **2.9900e-003** | **0.2256** | **2.8100e-003** | **0.2284** | **0.0605** | **2.6500e-003** | **0.0631** | | **306.6143** | **306.6143** | **0.0126** | | **306.9288** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | 0.0000 | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | **0.0000** | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0178 | 0.5671 | 0.1565 | 1.2000e-003 | 0.0279 | 1.5900e-003 | 0.0295 | 8.0200e-003 | 1.5200e-003 | 9.5500e-003 | | 128.1339 | 128.1339 | 7.2200e-003 | | 128.3144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0975** | **0.6310** | **0.8012** | **2.9900e-003** | **0.2256** | **2.8100e-003** | **0.2284** | **0.0605** | **2.6500e-003** | **0.0631** | | **306.6143** | **306.6143** | **0.0126** | | **306.9288** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5393 | 0.1443 | 1.1900e-003 | 0.0279 | 1.4000e-003 | 0.0293 | 8.0300e-003 | 1.3400e-003 | 9.3600e-003 | | 127.2867 | 127.2867 | 7.1300e-003 | | 127.4649 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0912** | **0.5967** | **0.7359** | **2.9200e-003** | **0.2256** | **2.5900e-003** | **0.2282** | **0.0605** | **2.4400e-003** | **0.0629** | | **299.3854** | **299.3854** | **0.0119** | | **299.6838** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | 0.0000 | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | **0.0000** | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5393 | 0.1443 | 1.1900e-003 | 0.0279 | 1.4000e-003 | 0.0293 | 8.0300e-003 | 1.3400e-003 | 9.3600e-003 | | 127.2867 | 127.2867 | 7.1300e-003 | | 127.4649 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0912** | **0.5967** | **0.7359** | **2.9200e-003** | **0.2256** | **2.5900e-003** | **0.2282** | **0.0605** | **2.4400e-003** | **0.0629** | | **299.3854** | **299.3854** | **0.0119** | | **299.6838** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | **0.0000** | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| Unmitigated | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| NaturalGas Unmitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1806.85 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.80685 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Unmitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |

## 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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

**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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

## 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**

| 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

# CCB Advanced Treatment Facility - 2023 - Mitigated

**San Luis Obispo County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Area Mitigation - x

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Construction Off-road Equipment Mitigation - Mitigation

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |

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| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |

| | | | |
|---|---|---|---|
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.5261 | 4.4309 | 4.5116 | 7.9100e-003 | 0.1314 | 0.2256 | 0.3569 | 0.0494 | 0.2172 | 0.2666 | 0.0000 | 677.2207 | 677.2207 | 0.1166 | 0.0000 | 680.1351 |
| 2022 | 0.1807 | 0.4082 | 0.4901 | 8.4000e-004 | 4.3400e-003 | 0.0204 | 0.0247 | 1.1600e-003 | 0.0196 | 0.0208 | 0.0000 | 71.7921 | 71.7921 | 0.0122 | 0.0000 | 72.0968 |
| **Maximum** | **0.5261** | **4.4309** | **4.5116** | **7.9100e-003** | **0.1314** | **0.2256** | **0.3569** | **0.0494** | **0.2172** | **0.2666** | **0.0000** | **677.2207** | **677.2207** | **0.1166** | **0.0000** | **680.1351** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.4336 | 4.1438 | 4.7421 | 7.9100e-003 | 0.1314 | 0.2196 | 0.3509 | 0.0494 | 0.2180 | 0.2674 | 0.0000 | 677.2200 | 677.2200 | 0.1166 | 0.0000 | 680.1343 |
| 2022 | 0.1730 | 0.4004 | 0.5156 | 8.4000e-004 | 4.3400e-003 | 0.0212 | 0.0256 | 1.1600e-003 | 0.0211 | 0.0222 | 0.0000 | 71.7920 | 71.7920 | 0.0122 | 0.0000 | 72.0967 |
| **Maximum** | **0.4336** | **4.1438** | **4.7421** | **7.9100e-003** | **0.1314** | **0.2196** | **0.3509** | **0.0494** | **0.2180** | **0.2674** | **0.0000** | **677.2200** | **677.2200** | **0.1166** | **0.0000** | **680.1343** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **14.18** | **6.10** | **-5.12** | **0.00** | **0.00** | **2.09** | **1.35** | **0.00** | **-0.95** | **-0.78** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| 1 | 1-1-2021 | 3-31-2021 | 1.0529 | 1.0060 |
| 2 | 4-1-2021 | 6-30-2021 | 1.2905 | 1.1808 |
| 3 | 7-1-2021 | 9-30-2021 | 1.3047 | 1.1938 |
| 4 | 10-1-2021 | 12-31-2021 | 1.3053 | 1.1944 |
| 5 | 1-1-2022 | 3-31-2022 | 0.6046 | 0.5885 |
| | | Highest | 1.3053 | 1.1944 |

## 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 | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6769 | 61.6769 | 1.9200e-003 | 9.1000e-004 | 61.9964 |
| Mobile | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1244** | **0.0518** | **0.2090** | **7.0000e-004** | **0.0626** | **2.8600e-003** | **0.0655** | **0.0166** | **2.8300e-003** | **0.0195** | **7.9291** | **111.2840** | **119.2130** | **0.4181** | **4.5000e-003** | **131.0071** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6769 | 61.6769 | 1.9200e-003 | 9.1000e-004 | 61.9964 |
| Mobile | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1244** | **0.0518** | **0.2090** | **7.0000e-004** | **0.0626** | **2.8600e-003** | **0.0655** | **0.0166** | **2.8300e-003** | **0.0195** | **7.9291** | **111.2840** | **119.2130** | **0.4181** | **4.5000e-003** | **131.0071** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

CCB Advanced Treatment Facility - 2023 - Mitigated - San Luis Obispo County APCD Air District, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8500e-003 | 0.0450 | 0.0260 | 6.0000e-005 | | 1.9200e-003 | 1.9200e-003 | | 1.7600e-003 | 1.7600e-003 | 0.0000 | 4.9470 | 4.9470 | 1.6000e-003 | 0.0000 | 4.9870 |
| **Total** | **3.8500e-003** | **0.0450** | **0.0260** | **6.0000e-005** | **2.6500e-003** | **1.9200e-003** | **4.5700e-003** | **2.9000e-004** | **1.7600e-003** | **2.0500e-003** | **0.0000** | **4.9470** | **4.9470** | **1.6000e-003** | **0.0000** | **4.9870** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8300e-003 | 0.0426 | 0.0264 | 6.0000e-005 | | 1.8500e-003 | 1.8500e-003 | | 1.7700e-003 | 1.7700e-003 | 0.0000 | 4.9469 | 4.9469 | 1.6000e-003 | 0.0000 | 4.9869 |
| **Total** | **2.8300e-003** | **0.0426** | **0.0264** | **6.0000e-005** | **2.6500e-003** | **1.8500e-003** | **4.5000e-003** | **2.9000e-004** | **1.7700e-003** | **2.0600e-003** | **0.0000** | **4.9469** | **4.9469** | **1.6000e-003** | **0.0000** | **4.9869** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

## 3.3 Grading - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0447 | 0.5006 | 0.2985 | 6.2000e-004 | | 0.0213 | 0.0213 | | 0.0197 | 0.0197 | 0.0000 | 54.5543 | 54.5543 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0447** | **0.5006** | **0.2985** | **6.2000e-004** | **0.0999** | **0.0213** | **0.1212** | **0.0414** | **0.0197** | **0.0610** | **0.0000** | **54.5543** | **54.5543** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0414 | 0.4957 | 0.3010 | 6.2000e-004 | | 0.0216 | 0.0216 | | 0.0202 | 0.0202 | 0.0000 | 54.5542 | 54.5542 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0414** | **0.4957** | **0.3010** | **6.2000e-004** | **0.0999** | **0.0216** | **0.1215** | **0.0414** | **0.0202** | **0.0616** | **0.0000** | **54.5542** | **54.5542** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.4645 | 3.7844 | 4.0837 | 6.8100e-003 | | 0.2019 | 0.2019 | | 0.1954 | 0.1954 | 0.0000 | 578.1714 | 578.1714 | 0.0956 | 0.0000 | 580.5625 |
| **Total** | **0.4645** | **3.7844** | **4.0837** | **6.8100e-003** | | **0.2019** | **0.2019** | | **0.1954** | **0.1954** | **0.0000** | **578.1714** | **578.1714** | **0.0956** | **0.0000** | **580.5625** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.3763 | 3.5045 | 4.3113 | 6.8100e-003 | | 0.1956 | 0.1956 | | 0.1956 | 0.1956 | 0.0000 | 578.1707 | 578.1707 | 0.0956 | 0.0000 | 580.5618 |
| **Total** | **0.3763** | **3.5045** | **4.3113** | **6.8100e-003** | | **0.1956** | **0.1956** | | **0.1956** | **0.1956** | **0.0000** | **578.1707** | **578.1707** | **0.0956** | **0.0000** | **580.5618** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3472 | 0.4089 | 6.9000e-004 | | 0.0175 | 0.0175 | | 0.0169 | 0.0169 | 0.0000 | 58.3563 | 58.3563 | 9.4800e-003 | 0.0000 | 58.5934 |
| **Total** | **0.0428** | **0.3472** | **0.4089** | **6.9000e-004** | | **0.0175** | **0.0175** | | **0.0169** | **0.0169** | **0.0000** | **58.3563** | **58.3563** | **9.4800e-003** | **0.0000** | **58.5934** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0356 | 0.3391 | 0.4339 | 6.9000e-004 | | 0.0182 | 0.0182 | | 0.0182 | 0.0182 | 0.0000 | 58.3562 | 58.3562 | 9.4800e-003 | 0.0000 | 58.5933 |
| **Total** | **0.0356** | **0.3391** | **0.4339** | **6.9000e-004** | | **0.0182** | **0.0182** | | **0.0182** | **0.0182** | **0.0000** | **58.3562** | **58.3562** | **9.4800e-003** | **0.0000** | **58.5933** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.7100e-003** | **0.0467** | **0.0585** | **9.0000e-005** | | **2.4400e-003** | **2.4400e-003** | | **2.2500e-003** | **2.2500e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.2600e-003 | 0.0470 | 0.0590 | 9.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.4400e-003 | 2.4400e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.2600e-003** | **0.0470** | **0.0590** | **9.0000e-005** | | **2.6000e-003** | **2.6000e-003** | | **2.4400e-003** | **2.4400e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |
| Unmitigated | 0.0101 | 0.0195 | 0.1814 | 5.1000e-004 | 0.0626 | 4.0000e-004 | 0.0630 | 0.0166 | 3.7000e-004 | 0.0170 | 0.0000 | 46.2161 | 46.2161 | 1.3300e-003 | 0.0000 | 46.2495 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4835 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4835 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| NaturalGas Mitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| NaturalGas Unmitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195500 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| **Total** | | **26.4835** | **1.2400e-003** | **2.7000e-004** | **26.5938** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195500 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| **Total** | | **26.4835** | **1.2400e-003** | **2.7000e-004** | **26.5938** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Unmitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| Unmitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Unmitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

## 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

| 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

# CCB Advanced Treatment Facility - 2023 - Mitigated

**San Luis Obispo County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Area Mitigation - x

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Construction Off-road Equipment Mitigation - Mitigation

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |

CCB Advanced Treatment Facility - 2023 - Mitigated - San Luis Obispo County APCD Air District, Winter

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |

| | | | |
|---|---|---|---|
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3711 | 46.0756 | 38.2679 | 0.0653 | 9.0293 | 1.8677 | 10.8970 | 3.6910 | 1.7954 | 5.4104 | 0.0000 | 6,141.3416 | 6,141.3416 | 1.7304 | 0.0000 | 6,165.8452 |
| 2022 | 26.3620 | 32.1653 | 37.9057 | 0.0653 | 0.2256 | 1.5909 | 1.8165 | 0.0605 | 1.5412 | 1.6017 | 0.0000 | 6,135.2498 | 6,135.2498 | 0.9627 | 0.0000 | 6,159.3168 |
| **Maximum** | **26.3620** | **46.0756** | **38.2679** | **0.0653** | **9.0293** | **1.8677** | **10.8970** | **3.6910** | **1.7954** | **5.4104** | **0.0000** | **6,141.3416** | **6,141.3416** | **1.7304** | **0.0000** | **6,165.8452** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 3.7598 | 45.6519 | 40.3558 | 0.0653 | 9.0293 | 1.8933 | 10.9226 | 3.6910 | 1.7974 | 5.4595 | 0.0000 | 6,141.3416 | 6,141.3416 | 1.7304 | 0.0000 | 6,165.8452 |
| 2022 | 26.3620 | 31.4269 | 40.1783 | 0.0653 | 0.2256 | 1.6546 | 1.8802 | 0.0605 | 1.6545 | 1.7150 | 0.0000 | 6,135.2498 | 6,135.2498 | 0.9627 | 0.0000 | 6,159.3168 |
| **Maximum** | **26.3620** | **45.6519** | **40.3558** | **0.0653** | **9.0293** | **1.8933** | **10.9226** | **3.6910** | **1.7974** | **5.4595** | **0.0000** | **6,141.3416** | **6,141.3416** | **1.7304** | **0.0000** | **6,165.8452** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **1.99** | **1.49** | **-5.72** | **0.00** | **0.00** | **-2.58** | **-0.70** | **0.00** | **-3.46** | **-2.32** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| **Total** | **0.6828** | **0.2864** | **1.1516** | **3.8500e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **490.5654** | **490.5654** | **0.0121** | **3.9000e-003** | **492.0300** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| **Total** | **0.6828** | **0.2864** | **1.1516** | **3.8500e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **490.5654** | **490.5654** | **0.0121** | **3.9000e-003** | **492.0300** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; 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 |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5666 | 8.5192 | 5.2708 | 0.0113 | | 0.3695 | 0.3695 | | 0.3545 | 0.3545 | 0.0000 | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.5666** | **8.5192** | **5.2708** | **0.0113** | **0.5303** | **0.3695** | **0.8998** | **0.0573** | **0.3545** | **0.4117** | **0.0000** | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.0973** | **0.2602** | **0.6846** | **2.1000e-003** | **0.2070** | **1.7800e-003** | **0.2088** | **0.0551** | **1.6700e-003** | **0.0568** | | **211.5235** | **211.5235** | **7.7500e-003** | | **211.7172** |

## 3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0647 | 2.2862 | 0.5406 | 6.0600e-003 | 0.1374 | 9.8100e-003 | 0.1472 | 0.0376 | 9.3800e-003 | 0.0470 | | 654.0253 | 654.0253 | 0.0390 | | 654.9997 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1620** | **2.5464** | **1.2252** | **8.1600e-003** | **0.3444** | **0.0116** | **0.3560** | **0.0928** | **0.0111** | **0.1038** | | **865.5488** | **865.5488** | **0.0467** | | **866.7169** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5978 | 43.1055 | 26.1728 | 0.0541 | | 1.8817 | 1.8817 | | 1.7575 | 1.7575 | 0.0000 | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.5978** | **43.1055** | **26.1728** | **0.0541** | **8.6850** | **1.8817** | **10.5667** | **3.5983** | **1.7575** | **5.3557** | **0.0000** | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0647 | 2.2862 | 0.5406 | 6.0600e-003 | 0.1374 | 9.8100e-003 | 0.1472 | 0.0376 | 9.3800e-003 | 0.0470 | | 654.0253 | 654.0253 | 0.0390 | | 654.9997 |
| Vendor | 6.3100e-003 | 0.1878 | 0.0591 | 3.9000e-004 | 9.2900e-003 | 5.6000e-004 | 9.8500e-003 | 2.6700e-003 | 5.4000e-004 | 3.2100e-003 | | 41.4007 | 41.4007 | 2.5800e-003 | | 41.4651 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1620** | **2.5464** | **1.2252** | **8.1600e-003** | **0.3444** | **0.0116** | **0.3560** | **0.0928** | **0.0111** | **0.1038** | | **865.5488** | **865.5488** | **0.0467** | | **866.7169** |

## 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 | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0189 | 0.5634 | 0.1772 | 1.1700e-003 | 0.0279 | 1.6800e-003 | 0.0295 | 8.0200e-003 | 1.6100e-003 | 9.6300e-003 | | 124.2021 | 124.2021 | 7.7300e-003 | | 124.3954 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1099** | **0.6358** | **0.8027** | **2.8800e-003** | **0.2256** | **2.9000e-003** | **0.2285** | **0.0605** | **2.7400e-003** | **0.0632** | | **294.3249** | **294.3249** | **0.0129** | | **294.6475** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.4525 | 32.1516 | 39.5531 | 0.0624 | | 1.7947 | 1.7947 | | 1.7947 | 1.7947 | 0.0000 | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **3.4525** | **32.1516** | **39.5531** | **0.0624** | | **1.7947** | **1.7947** | | **1.7947** | **1.7947** | **0.0000** | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0189 | 0.5634 | 0.1772 | 1.1700e-003 | 0.0279 | 1.6800e-003 | 0.0295 | 8.0200e-003 | 1.6100e-003 | 9.6300e-003 | | 124.2021 | 124.2021 | 7.7300e-003 | | 124.3954 |
| Worker | 0.0910 | 0.0724 | 0.6255 | 1.7100e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 170.1228 | 170.1228 | 5.1700e-003 | | 170.2520 |
| **Total** | **0.1099** | **0.6358** | **0.8027** | **2.8800e-003** | **0.2256** | **2.9000e-003** | **0.2285** | **0.0605** | **2.7400e-003** | **0.0632** | | **294.3249** | **294.3249** | **0.0129** | | **294.6475** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0175 | 0.5354 | 0.1638 | 1.1600e-003 | 0.0279 | 1.4800e-003 | 0.0294 | 8.0300e-003 | 1.4200e-003 | 9.4500e-003 | | 123.3206 | 123.3206 | 7.6400e-003 | | 123.5116 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.1031** | **0.6005** | **0.7364** | **2.8100e-003** | **0.2256** | **2.6700e-003** | **0.2283** | **0.0605** | **2.5200e-003** | **0.0630** | | **287.3629** | **287.3629** | **0.0123** | | **287.6696** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.2350 | 30.8264 | 39.4419 | 0.0625 | | 1.6520 | 1.6520 | | 1.6520 | 1.6520 | 0.0000 | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.2350** | **30.8264** | **39.4419** | **0.0625** | | **1.6520** | **1.6520** | | **1.6520** | **1.6520** | **0.0000** | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0175 | 0.5354 | 0.1638 | 1.1600e-003 | 0.0279 | 1.4800e-003 | 0.0294 | 8.0300e-003 | 1.4200e-003 | 9.4500e-003 | | 123.3206 | 123.3206 | 7.6400e-003 | | 123.5116 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.1031** | **0.6005** | **0.7364** | **2.8100e-003** | **0.2256** | **2.6700e-003** | **0.2283** | **0.0605** | **2.5200e-003** | **0.0630** | | **287.3629** | **287.3629** | **0.0123** | | **287.6696** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8524 | 9.3909 | 11.8011 | 0.0179 | | 0.5193 | 0.5193 | | 0.4886 | 0.4886 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.8524** | **9.3909** | **11.8011** | **0.0179** | | **0.5193** | **0.5193** | | **0.4886** | **0.4886** | **0.0000** | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0856 | 0.0651 | 0.5726 | 1.6500e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 164.0423 | 164.0423 | 4.6300e-003 | | 164.1581 |
| **Total** | **0.0856** | **0.0651** | **0.5726** | **1.6500e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **164.0423** | **164.0423** | **4.6300e-003** | | **164.1581** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |
| Unmitigated | 0.0567 | 0.1092 | 1.0003 | 2.7900e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 277.9894 | 277.9894 | 8.0400e-003 | | 278.1905 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| NaturalGas Unmitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1806.85 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

### 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.80685 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Unmitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |

## 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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

**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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

## 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**

| 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

# CCB Advanced Treatment Facility - 2023 - Mitigated

**San Luis Obispo County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2023 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - Assumes max daily trips of 36 ADT. Roundtrip OM distance approximately 20 miles.

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Area Mitigation - x

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

Construction Off-road Equipment Mitigation - Mitigation

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |

CCB Advanced Treatment Facility - 2023 - Mitigated - San Luis Obispo County APCD Air District, Summer

| | | | |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.58 | 0.47 |
| tblFleetMix | LDT1 | 0.03 | 0.47 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.02 | 0.00 |
| tblFleetMix | LHD2 | 6.0960e-003 | 0.00 |
| tblFleetMix | MCY | 4.9130e-003 | 0.00 |
| tblFleetMix | MDV | 0.12 | 0.06 |
| tblFleetMix | MH | 1.2990e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |

| | | | |
|---|---|---|---|
| tblFleetMix | OBUS | 2.3410e-003 | 0.00 |
| tblFleetMix | SBUS | 7.7000e-004 | 0.00 |
| tblFleetMix | UBUS | 1.1880e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 11.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 6.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 83.00 |
| 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 | 1.40 |
| tblVehicleTrips | SU_TR | 0.68 | 1.40 |
| tblVehicleTrips | WD_TR | 6.97 | 1.40 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 4.3586 | 46.0546 | 38.2664 | 0.0654 | 9.0293 | 1.8674 | 10.8968 | 3.6910 | 1.7953 | 5.4102 | 0.0000 | 6,153.6310 | 6,153.6310 | 1.7292 | 0.0000 | 6,178.1265 |
| 2022 | 26.3512 | 32.1615 | 37.9051 | 0.0654 | 0.2256 | 1.5908 | 1.8164 | 0.0605 | 1.5411 | 1.6016 | 0.0000 | 6,147.2723 | 6,147.2723 | 0.9624 | 0.0000 | 6,171.3310 |
| **Maximum** | **26.3512** | **46.0546** | **38.2664** | **0.0654** | **9.0293** | **1.8674** | **10.8968** | **3.6910** | **1.7953** | **5.4102** | **0.0000** | **6,153.6310** | **6,153.6310** | **1.7292** | **0.0000** | **6,178.1265** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 3.7463 | 45.6309 | 40.3542 | 0.0654 | 9.0293 | 1.8930 | 10.9224 | 3.6910 | 1.7973 | 5.4593 | 0.0000 | 6,153.6310 | 6,153.6310 | 1.7292 | 0.0000 | 6,178.1265 |
| 2022 | 26.3512 | 31.4231 | 40.1778 | 0.0654 | 0.2256 | 1.6546 | 1.8801 | 0.0605 | 1.6544 | 1.7149 | 0.0000 | 6,147.2723 | 6,147.2723 | 0.9624 | 0.0000 | 6,171.3310 |
| **Maximum** | **26.3512** | **45.6309** | **40.3542** | **0.0654** | **9.0293** | **1.8930** | **10.9224** | **3.6910** | **1.7973** | **5.4593** | **0.0000** | **6,153.6310** | **6,153.6310** | **1.7292** | **0.0000** | **6,178.1265** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **1.99** | **1.49** | **-5.72** | **0.00** | **0.00** | **-2.58** | **-0.70** | **0.00** | **-3.46** | **-2.32** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| **Total** | **0.6861** | **0.2734** | **1.1847** | **3.9900e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **504.1702** | **504.1702** | **0.0124** | **3.9000e-003** | **505.6426** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Energy | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| Mobile | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| **Total** | **0.6861** | **0.2734** | **1.1847** | **3.9900e-003** | **0.3534** | **0.0157** | **0.3690** | **0.0937** | **0.0155** | **0.1092** | | **504.1702** | **504.1702** | **0.0124** | **3.9000e-003** | **505.6426** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7696 | 8.9995 | 5.1953 | 0.0113 | | 0.3832 | 0.3832 | | 0.3525 | 0.3525 | | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.7696** | **8.9995** | **5.1953** | **0.0113** | **0.5303** | **0.3832** | **0.9134** | **0.0573** | **0.3525** | **0.4098** | | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.5666 | 8.5192 | 5.2708 | 0.0113 | | 0.3695 | 0.3695 | | 0.3545 | 0.3545 | 0.0000 | 1,090.6150 | 1,090.6150 | 0.3527 | | 1,099.4332 |
| **Total** | **0.5666** | **8.5192** | **5.2708** | **0.0113** | **0.5303** | **0.3695** | **0.8998** | **0.0573** | **0.3545** | **0.4117** | **0.0000** | **1,090.6150** | **1,090.6150** | **0.3527** | | **1,099.4332** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0856** | **0.2529** | **0.6969** | **2.1900e-003** | **0.2070** | **1.7500e-003** | **0.2088** | **0.0551** | **1.6400e-003** | **0.0568** | | **221.1917** | **221.1917** | **7.7700e-003** | | **221.3859** |

## 3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8900 | 43.5292 | 25.9580 | 0.0541 | | 1.8561 | 1.8561 | | 1.7084 | 1.7084 | | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.8900** | **43.5292** | **25.9580** | **0.0541** | **8.6850** | **1.8561** | **10.5410** | **3.5983** | **1.7084** | **5.3066** | | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0630 | 2.2726 | 0.5094 | 6.1500e-003 | 0.1374 | 9.5800e-003 | 0.1470 | 0.0376 | 9.1700e-003 | 0.0468 | | 663.9887 | 663.9887 | 0.0378 | | 664.9331 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.1486** | **2.5254** | **1.2063** | **8.3400e-003** | **0.3444** | **0.0113** | **0.3557** | **0.0928** | **0.0108** | **0.1036** | | **885.1804** | **885.1804** | **0.0456** | | **886.3190** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 8.6850 | 0.0000 | 8.6850 | 3.5983 | 0.0000 | 3.5983 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5978 | 43.1055 | 26.1728 | 0.0541 | | 1.8817 | 1.8817 | | 1.7575 | 1.7575 | 0.0000 | 5,229.2014 | 5,229.2014 | 1.6837 | | 5,271.2929 |
| **Total** | **3.5978** | **43.1055** | **26.1728** | **0.0541** | **8.6850** | **1.8817** | **10.5667** | **3.5983** | **1.7575** | **5.3557** | **0.0000** | **5,229.2014** | **5,229.2014** | **1.6837** | | **5,271.2929** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0630 | 2.2726 | 0.5094 | 6.1500e-003 | 0.1374 | 9.5800e-003 | 0.1470 | 0.0376 | 9.1700e-003 | 0.0468 | | 663.9887 | 663.9887 | 0.0378 | | 664.9331 |
| Vendor | 5.9300e-003 | 0.1890 | 0.0522 | 4.0000e-004 | 9.2900e-003 | 5.3000e-004 | 9.8200e-003 | 2.6700e-003 | 5.1000e-004 | 3.1800e-003 | | 42.7113 | 42.7113 | 2.4100e-003 | | 42.7715 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.1486** | **2.5254** | **1.2063** | **8.3400e-003** | **0.3444** | **0.0113** | **0.3557** | **0.0928** | **0.0108** | **0.1036** | | **885.1804** | **885.1804** | **0.0456** | | **886.3190** |

## 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 | 4.2611 | 34.7192 | 37.4652 | 0.0624 | | 1.8518 | 1.8518 | | 1.7926 | 1.7926 | | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **4.2611** | **34.7192** | **37.4652** | **0.0624** | | **1.8518** | **1.8518** | | **1.7926** | **1.7926** | | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0178 | 0.5671 | 0.1565 | 1.2000e-003 | 0.0279 | 1.5900e-003 | 0.0295 | 8.0200e-003 | 1.5200e-003 | 9.5500e-003 | | 128.1339 | 128.1339 | 7.2200e-003 | | 128.3144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0975** | **0.6310** | **0.8012** | **2.9900e-003** | **0.2256** | **2.8100e-003** | **0.2284** | **0.0605** | **2.6500e-003** | **0.0631** | | **306.6143** | **306.6143** | **0.0126** | | **306.9288** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.4525 | 32.1516 | 39.5531 | 0.0624 | | 1.7947 | 1.7947 | | 1.7947 | 1.7947 | 0.0000 | 5,847.0167 | 5,847.0167 | 0.9672 | | 5,871.1977 |
| **Total** | **3.4525** | **32.1516** | **39.5531** | **0.0624** | | **1.7947** | **1.7947** | | **1.7947** | **1.7947** | **0.0000** | **5,847.0167** | **5,847.0167** | **0.9672** | | **5,871.1977** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0178 | 0.5671 | 0.1565 | 1.2000e-003 | 0.0279 | 1.5900e-003 | 0.0295 | 8.0200e-003 | 1.5200e-003 | 9.5500e-003 | | 128.1339 | 128.1339 | 7.2200e-003 | | 128.3144 |
| Worker | 0.0797 | 0.0638 | 0.6447 | 1.7900e-003 | 0.1977 | 1.2200e-003 | 0.1990 | 0.0524 | 1.1300e-003 | 0.0536 | | 178.4805 | 178.4805 | 5.3600e-003 | | 178.6144 |
| **Total** | **0.0975** | **0.6310** | **0.8012** | **2.9900e-003** | **0.2256** | **2.8100e-003** | **0.2284** | **0.0605** | **2.6500e-003** | **0.0631** | | **306.6143** | **306.6143** | **0.0126** | | **306.9288** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.8928 | 31.5648 | 37.1692 | 0.0625 | | 1.5882 | 1.5882 | | 1.5387 | 1.5387 | | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.8928** | **31.5648** | **37.1692** | **0.0625** | | **1.5882** | **1.5882** | | **1.5387** | **1.5387** | | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5393 | 0.1443 | 1.1900e-003 | 0.0279 | 1.4000e-003 | 0.0293 | 8.0300e-003 | 1.3400e-003 | 9.3600e-003 | | 127.2867 | 127.2867 | 7.1300e-003 | | 127.4649 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0912** | **0.5967** | **0.7359** | **2.9200e-003** | **0.2256** | **2.5900e-003** | **0.2282** | **0.0605** | **2.4400e-003** | **0.0629** | | **299.3854** | **299.3854** | **0.0119** | | **299.6838** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.2350 | 30.8264 | 39.4419 | 0.0625 | | 1.6520 | 1.6520 | | 1.6520 | 1.6520 | 0.0000 | 5,847.8869 | 5,847.8869 | 0.9504 | | 5,871.6472 |
| **Total** | **3.2350** | **30.8264** | **39.4419** | **0.0625** | | **1.6520** | **1.6520** | | **1.6520** | **1.6520** | **0.0000** | **5,847.8869** | **5,847.8869** | **0.9504** | | **5,871.6472** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0164 | 0.5393 | 0.1443 | 1.1900e-003 | 0.0279 | 1.4000e-003 | 0.0293 | 8.0300e-003 | 1.3400e-003 | 9.3600e-003 | | 127.2867 | 127.2867 | 7.1300e-003 | | 127.4649 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0912** | **0.5967** | **0.7359** | **2.9200e-003** | **0.2256** | **2.5900e-003** | **0.2282** | **0.0605** | **2.4400e-003** | **0.0629** | | **299.3854** | **299.3854** | **0.0119** | | **299.6838** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9412** | **9.3322** | **11.6970** | **0.0179** | | **0.4879** | **0.4879** | | **0.4500** | **0.4500** | | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8524 | 9.3909 | 11.8011 | 0.0179 | | 0.5193 | 0.5193 | | 0.4886 | 0.4886 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.8524** | **9.3909** | **11.8011** | **0.0179** | | **0.5193** | **0.5193** | | **0.4886** | **0.4886** | **0.0000** | **1,709.6892** | **1,709.6892** | **0.5419** | | **1,723.2356** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 26.0719 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **26.2764** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0747 | 0.0574 | 0.5916 | 1.7300e-003 | 0.1977 | 1.1900e-003 | 0.1989 | 0.0524 | 1.1000e-003 | 0.0535 | | 172.0987 | 172.0987 | 4.8100e-003 | | 172.2189 |
| **Total** | **0.0747** | **0.0574** | **0.5916** | **1.7300e-003** | **0.1977** | **1.1900e-003** | **0.1989** | **0.0524** | **1.1000e-003** | **0.0535** | | **172.0987** | **172.0987** | **4.8100e-003** | | **172.2189** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |
| Unmitigated | 0.0599 | 0.0962 | 1.0334 | 2.9300e-003 | 0.3534 | 2.1800e-003 | 0.3556 | 0.0937 | 2.0100e-003 | 0.0957 | | 291.5943 | 291.5943 | 8.3500e-003 | | 291.8031 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |
| Total | 35.00 | 35.00 | 35.00 | 169,315 | 169,315 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 83.00 | 11.00 | 6.00 | 100 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.472200 | 0.472200 | 0.000000 | 0.055600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| NaturalGas Unmitigated | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1806.85 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

### 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.80685 | 0.0195 | 0.1771 | 0.1488 | 1.0600e-003 | | 0.0135 | 0.0135 | | 0.0135 | 0.0135 | | 212.5705 | 212.5705 | 4.0700e-003 | 3.9000e-003 | 213.8337 |
| **Total** | | **0.0195** | **0.1771** | **0.1488** | **1.0600e-003** | | **0.0135** | **0.0135** | | **0.0135** | **0.0135** | | **212.5705** | **212.5705** | **4.0700e-003** | **3.9000e-003** | **213.8337** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| Unmitigated | 0.6067 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |

## 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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

**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 | 0.0714 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.5350 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.4000e-004 | 2.0000e-005 | 2.5500e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | | 5.4700e-003 | 5.4700e-003 | 1.0000e-005 | | 5.8300e-003 |
| **Total** | **0.6067** | **2.0000e-005** | **2.5500e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | | **5.4700e-003** | **5.4700e-003** | **1.0000e-005** | | **5.8300e-003** |

## 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**

| 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

# CCB Advanced Treatment Facility - 2030

**San Luis Obispo County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 25.00 | 1000sqft | 1.50 | 25,000.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 3.2 | **Precipitation Freq (Days)** | 44 |
| **Climate Zone** | 4 | | | **Operational Year** | 2030 |
| **Utility Company** | Pacific Gas & Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 298.65 | **CH4 Intensity (lb/MWhr)** | 0.014 | **N2O Intensity (lb/MWhr)** | 0.003 |

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

Project Characteristics - 2030 RPS.

Land Use - Based on preliminary engineering report

Construction Phase - Applicant provided construction schedule.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info. Grader as proxy for backhoe used to allow for soil export during critical drilling stage with specs for backhoe.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Off-road Equipment - Applicant info.

Trips and VMT - Up to 10 workers during each phase, one water truck during site prep, grading, and BC.

Demolition -

Grading - Export for underground storage tank

Architectural Coating - SLOAPCD Rule 433

Vehicle Trips - weekly well maintenance, semiannual pipeline maintenance, 15 employees per day, 8 monthly chemical deliveries. Roundtrip OM distance approximately 20 miles.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - SLOAPCD Rule 433

Energy Use - Reduced by 30% for 2019 Building Standards.

Water And Wastewater - Reduced by 20% for CALGreen. No septic tank.

Solid Waste -

Area Mitigation - x

Operational Off-Road Equipment -

Fleet Mix - Assumes OM staff drives cars and light duty trucks and chemical deliveries are in MDV.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |

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| | | | |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 150 | 250 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 250 |
| tblConstructionPhase | NumDays | 200.00 | 240.00 |
| tblConstructionPhase | NumDays | 4.00 | 23.00 |
| tblConstructionPhase | NumDays | 2.00 | 10.00 |
| tblEnergyUse | T24E | 1.48 | 1.04 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.61 | 0.49 |
| tblFleetMix | LDT1 | 0.03 | 0.49 |
| tblFleetMix | LDT2 | 0.20 | 0.00 |
| tblFleetMix | LHD1 | 0.01 | 0.00 |
| tblFleetMix | LHD2 | 4.4400e-003 | 0.00 |
| tblFleetMix | MCY | 4.2480e-003 | 0.00 |
| tblFleetMix | MDV | 0.10 | 0.02 |
| tblFleetMix | MH | 7.5900e-004 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | OBUS | 2.2470e-003 | 0.00 |
| tblFleetMix | SBUS | 7.0800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.0590e-003 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 1,451.00 |
| tblLandUse | LotAcreage | 0.57 | 1.50 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |

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| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 7.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.014 |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 298.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.003 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 4.00 | 6.00 |
| tblTripsAndVMT | WorkerTripNumber | 8.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 11.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 2.00 | 20.00 |
| tblVehicleTrips | CC_TL | 5.00 | 20.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 1.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 2.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 97.00 |
| 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 | 1.20 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | SU_TR | 0.68 | 1.20 |
| tblVehicleTrips | WD_TR | 6.97 | 1.20 |
| tblWater | AerobicPercent | 87.46 | 97.79 |
| tblWater | IndoorWaterUseRate | 5,781,250.00 | 4,625,000.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.5261 | 4.4309 | 4.5116 | 7.9100e-003 | 0.1314 | 0.2256 | 0.3569 | 0.0494 | 0.2172 | 0.2666 | 0.0000 | 677.2207 | 677.2207 | 0.1166 | 0.0000 | 680.1351 |
| 2022 | 0.1807 | 0.4082 | 0.4901 | 8.4000e-004 | 4.3400e-003 | 0.0204 | 0.0247 | 1.1600e-003 | 0.0196 | 0.0208 | 0.0000 | 71.7921 | 71.7921 | 0.0122 | 0.0000 | 72.0968 |
| **Maximum** | **0.5261** | **4.4309** | **4.5116** | **7.9100e-003** | **0.1314** | **0.2256** | **0.3569** | **0.0494** | **0.2172** | **0.2666** | **0.0000** | **677.2207** | **677.2207** | **0.1166** | **0.0000** | **680.1351** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.5261 | 4.4309 | 4.5116 | 7.9100e-003 | 0.1314 | 0.2256 | 0.3569 | 0.0494 | 0.2172 | 0.2666 | 0.0000 | 677.2200 | 677.2200 | 0.1166 | 0.0000 | 680.1343 |
| 2022 | 0.1807 | 0.4082 | 0.4901 | 8.4000e-004 | 4.3400e-003 | 0.0204 | 0.0247 | 1.1600e-003 | 0.0196 | 0.0208 | 0.0000 | 71.7920 | 71.7920 | 0.0122 | 0.0000 | 72.0967 |
| **Maximum** | **0.5261** | **4.4309** | **4.5116** | **7.9100e-003** | **0.1314** | **0.2256** | **0.3569** | **0.0494** | **0.2172** | **0.2666** | **0.0000** | **677.2200** | **677.2200** | **0.1166** | **0.0000** | **680.1343** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| 1 | 1-1-2021 | 3-31-2021 | 1.0529 | 1.0529 |
| 2 | 4-1-2021 | 6-30-2021 | 1.2905 | 1.2905 |
| 3 | 7-1-2021 | 9-30-2021 | 1.3047 | 1.3047 |
| 4 | 10-1-2021 | 12-31-2021 | 1.3053 | 1.3053 |
| 5 | 1-1-2022 | 3-31-2022 | 0.6046 | 0.6046 |
| | | Highest | 1.3053 | 1.3053 |

## 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 | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6769 | 61.6769 | 1.9200e-003 | 9.1000e-004 | 61.9964 |
| Mobile | 4.5000e-003 | 7.7300e-003 | 0.0822 | 3.2000e-004 | 0.0522 | 2.2000e-004 | 0.0524 | 0.0139 | 2.0000e-004 | 0.0141 | 0.0000 | 29.1230 | 29.1230 | 5.0000e-004 | 0.0000 | 29.1356 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1188** | **0.0401** | **0.1098** | **5.1000e-004** | **0.0522** | **2.6800e-003** | **0.0548** | **0.0139** | **2.6600e-003** | **0.0165** | **7.9291** | **94.1909** | **102.1199** | **0.4172** | **4.5000e-003** | **113.8932** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Energy | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 61.6769 | 61.6769 | 1.9200e-003 | 9.1000e-004 | 61.9964 |
| Mobile | 4.5000e-003 | 7.7300e-003 | 0.0822 | 3.2000e-004 | 0.0522 | 2.2000e-004 | 0.0524 | 0.0139 | 2.0000e-004 | 0.0141 | 0.0000 | 29.1230 | 29.1230 | 5.0000e-004 | 0.0000 | 29.1356 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.2927 | 0.0000 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.6363 | 3.3901 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | **0.1188** | **0.0401** | **0.1098** | **5.1000e-004** | **0.0522** | **2.6800e-003** | **0.0548** | **0.0139** | **2.6600e-003** | **0.0165** | **7.9291** | **94.1909** | **102.1199** | **0.4172** | **4.5000e-003** | **113.8932** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/15/2021 | 1/28/2021 | 5 | 10 | |
| 2 | Grading | Grading | 1/29/2021 | 3/2/2021 | 5 | 23 | |
| 3 | Building Construction | Building Construction | 3/3/2021 | 2/1/2022 | 5 | 240 | |
| 4 | Paving | Paving | 2/2/2022 | 2/15/2022 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/16/2022 | 3/1/2022 | 5 | 10 | |

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 57.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; 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 |
|---|---|---|---|---|---|
| Site Preparation | Forklifts | 1 | 8.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Excavators | 1 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Plate Compactors | 1 | 8.00 | 8 | 0.43 |
| Building Construction | Skid Steer Loaders | 1 | 8.00 | 65 | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 20.00 | 2.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 2.00 | 181.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 18 | 20.00 | 6.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 13.00 | 5.00 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8500e-003 | 0.0450 | 0.0260 | 6.0000e-005 | | 1.9200e-003 | 1.9200e-003 | | 1.7600e-003 | 1.7600e-003 | 0.0000 | 4.9470 | 4.9470 | 1.6000e-003 | 0.0000 | 4.9870 |
| **Total** | **3.8500e-003** | **0.0450** | **0.0260** | **6.0000e-005** | **2.6500e-003** | **1.9200e-003** | **4.5700e-003** | **2.9000e-004** | **1.7600e-003** | **2.0500e-003** | **0.0000** | **4.9470** | **4.9470** | **1.6000e-003** | **0.0000** | **4.9870** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.6500e-003 | 0.0000 | 2.6500e-003 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8500e-003 | 0.0450 | 0.0260 | 6.0000e-005 | | 1.9200e-003 | 1.9200e-003 | | 1.7600e-003 | 1.7600e-003 | 0.0000 | 4.9469 | 4.9469 | 1.6000e-003 | 0.0000 | 4.9869 |
| **Total** | **3.8500e-003** | **0.0450** | **0.0260** | **6.0000e-005** | **2.6500e-003** | **1.9200e-003** | **4.5700e-003** | **2.9000e-004** | **1.7600e-003** | **2.0500e-003** | **0.0000** | **4.9469** | **4.9469** | **1.6000e-003** | **0.0000** | **4.9869** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 9.5000e-004 | 2.8000e-004 | 0.0000 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 1.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1912 | 0.1912 | 1.0000e-005 | 0.0000 | 0.1915 |
| Worker | 4.1000e-004 | 3.6000e-004 | 3.1200e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7780 | 0.7780 | 2.0000e-005 | 0.0000 | 0.7786 |
| **Total** | **4.4000e-004** | **1.3100e-003** | **3.4000e-003** | **1.0000e-005** | **1.0100e-003** | **1.0000e-005** | **1.0200e-003** | **2.7000e-004** | **1.0000e-005** | **2.8000e-004** | **0.0000** | **0.9692** | **0.9692** | **3.0000e-005** | **0.0000** | **0.9701** |

## 3.3 Grading - 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0447 | 0.5006 | 0.2985 | 6.2000e-004 | | 0.0213 | 0.0213 | | 0.0197 | 0.0197 | 0.0000 | 54.5543 | 54.5543 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0447** | **0.5006** | **0.2985** | **6.2000e-004** | **0.0999** | **0.0213** | **0.1212** | **0.0414** | **0.0197** | **0.0610** | **0.0000** | **54.5543** | **54.5543** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0999 | 0.0000 | 0.0999 | 0.0414 | 0.0000 | 0.0414 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0447 | 0.5006 | 0.2985 | 6.2000e-004 | | 0.0213 | 0.0213 | | 0.0197 | 0.0197 | 0.0000 | 54.5542 | 54.5542 | 0.0176 | 0.0000 | 54.9934 |
| **Total** | **0.0447** | **0.5006** | **0.2985** | **6.2000e-004** | **0.0999** | **0.0213** | **0.1212** | **0.0414** | **0.0197** | **0.0610** | **0.0000** | **54.5542** | **54.5542** | **0.0176** | **0.0000** | **54.9934** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.3000e-004 | 0.0266 | 6.0200e-003 | 7.0000e-005 | 1.5400e-003 | 1.1000e-004 | 1.6600e-003 | 4.2000e-004 | 1.1000e-004 | 5.3000e-004 | 0.0000 | 6.8835 | 6.8835 | 4.0000e-004 | 0.0000 | 6.8935 |
| Vendor | 7.0000e-005 | 2.1900e-003 | 6.4000e-004 | 0.0000 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4398 | 0.4398 | 3.0000e-005 | 0.0000 | 0.4405 |
| Worker | 9.4000e-004 | 8.2000e-004 | 7.1700e-003 | 2.0000e-005 | 2.2100e-003 | 1.0000e-005 | 2.2300e-003 | 5.9000e-004 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 1.7893 | 1.7893 | 5.0000e-005 | 0.0000 | 1.7907 |
| **Total** | **1.7400e-003** | **0.0296** | **0.0138** | **9.0000e-005** | **3.8500e-003** | **1.3000e-004** | **4.0000e-003** | **1.0400e-003** | **1.3000e-004** | **1.1700e-003** | **0.0000** | **9.1126** | **9.1126** | **4.8000e-004** | **0.0000** | **9.1246** |

## 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.4645 | 3.7844 | 4.0837 | 6.8100e-003 | | 0.2019 | 0.2019 | | 0.1954 | 0.1954 | 0.0000 | 578.1714 | 578.1714 | 0.0956 | 0.0000 | 580.5625 |
| **Total** | **0.4645** | **3.7844** | **4.0837** | **6.8100e-003** | | **0.2019** | **0.2019** | | **0.1954** | **0.1954** | **0.0000** | **578.1714** | **578.1714** | **0.0956** | **0.0000** | **580.5625** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.4645 | 3.7844 | 4.0837 | 6.8100e-003 | | 0.2019 | 0.2019 | | 0.1954 | 0.1954 | 0.0000 | 578.1707 | 578.1707 | 0.0956 | 0.0000 | 580.5618 |
| **Total** | **0.4645** | **3.7844** | **4.0837** | **6.8100e-003** | | **0.2019** | **0.2019** | | **0.1954** | **0.1954** | **0.0000** | **578.1707** | **578.1707** | **0.0956** | **0.0000** | **580.5618** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9900e-003 | 0.0623 | 0.0182 | 1.3000e-004 | 2.9700e-003 | 1.8000e-004 | 3.1500e-003 | 8.6000e-004 | 1.7000e-004 | 1.0300e-003 | 0.0000 | 12.5068 | 12.5068 | 7.4000e-004 | 0.0000 | 12.5252 |
| Worker | 8.8800e-003 | 7.7400e-003 | 0.0680 | 1.9000e-004 | 0.0210 | 1.3000e-004 | 0.0211 | 5.5800e-003 | 1.2000e-004 | 5.7000e-003 | 0.0000 | 16.9595 | 16.9595 | 5.1000e-004 | 0.0000 | 16.9723 |
| **Total** | **0.0109** | **0.0700** | **0.0862** | **3.2000e-004** | **0.0240** | **3.1000e-004** | **0.0243** | **6.4400e-003** | **2.9000e-004** | **6.7300e-003** | **0.0000** | **29.4663** | **29.4663** | **1.2500e-003** | **0.0000** | **29.4976** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3472 | 0.4089 | 6.9000e-004 | | 0.0175 | 0.0175 | | 0.0169 | 0.0169 | 0.0000 | 58.3563 | 58.3563 | 9.4800e-003 | 0.0000 | 58.5934 |
| **Total** | **0.0428** | **0.3472** | **0.4089** | **6.9000e-004** | | **0.0175** | **0.0175** | | **0.0169** | **0.0169** | **0.0000** | **58.3563** | **58.3563** | **9.4800e-003** | **0.0000** | **58.5934** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3472 | 0.4089 | 6.9000e-004 | | 0.0175 | 0.0175 | | 0.0169 | 0.0169 | 0.0000 | 58.3562 | 58.3562 | 9.4800e-003 | 0.0000 | 58.5933 |
| **Total** | **0.0428** | **0.3472** | **0.4089** | **6.9000e-004** | | **0.0175** | **0.0175** | | **0.0169** | **0.0169** | **0.0000** | **58.3562** | **58.3562** | **9.4800e-003** | **0.0000** | **58.5933** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.9000e-004 | 5.9700e-003 | 1.7000e-003 | 1.0000e-005 | 3.0000e-004 | 2.0000e-005 | 3.2000e-004 | 9.0000e-005 | 2.0000e-005 | 1.0000e-004 | 0.0000 | 1.2536 | 1.2536 | 7.0000e-005 | 0.0000 | 1.2554 |
| Worker | 8.4000e-004 | 7.0000e-004 | 6.2800e-003 | 2.0000e-005 | 2.1200e-003 | 1.0000e-005 | 2.1300e-003 | 5.6000e-004 | 1.0000e-005 | 5.7000e-004 | 0.0000 | 1.6503 | 1.6503 | 5.0000e-005 | 0.0000 | 1.6515 |
| **Total** | **1.0300e-003** | **6.6700e-003** | **7.9800e-003** | **3.0000e-005** | **2.4200e-003** | **3.0000e-005** | **2.4500e-003** | **6.5000e-004** | **3.0000e-005** | **6.7000e-004** | **0.0000** | **2.9039** | **2.9039** | **1.2000e-004** | **0.0000** | **2.9069** |

## 3.5 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.7100e-003** | **0.0467** | **0.0585** | **9.0000e-005** | | **2.4400e-003** | **2.4400e-003** | | **2.2500e-003** | **2.2500e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.7100e-003** | **0.0467** | **0.0585** | **9.0000e-005** | | **2.4400e-003** | **2.4400e-003** | | **2.2500e-003** | **2.2500e-003** | **0.0000** | **7.7550** | **7.7550** | **2.4600e-003** | **0.0000** | **7.8165** |

## 3.5 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 3.6 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

## 3.6 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | |
| Archit. Coating | 0.1304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| **Total** | **0.1314** | **7.0400e-003** | **9.0700e-003** | **1.0000e-005** | | **4.1000e-004** | **4.1000e-004** | | **4.1000e-004** | **4.1000e-004** | **0.0000** | **1.2766** | **1.2766** | **8.0000e-005** | **0.0000** | **1.2787** |

### 3.6 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.8000e-004 | 3.2000e-004 | 2.8600e-003 | 1.0000e-005 | 9.6000e-004 | 1.0000e-005 | 9.7000e-004 | 2.6000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.7502 | 0.7502 | 2.0000e-005 | 0.0000 | 0.7507 |
| **Total** | **3.8000e-004** | **3.2000e-004** | **2.8600e-003** | **1.0000e-005** | **9.6000e-004** | **1.0000e-005** | **9.7000e-004** | **2.6000e-004** | **1.0000e-005** | **2.6000e-004** | **0.0000** | **0.7502** | **0.7502** | **2.0000e-005** | **0.0000** | **0.7507** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 4.5000e-003 | 7.7300e-003 | 0.0822 | 3.2000e-004 | 0.0522 | 2.2000e-004 | 0.0524 | 0.0139 | 2.0000e-004 | 0.0141 | 0.0000 | 29.1230 | 29.1230 | 5.0000e-004 | 0.0000 | 29.1356 |
| Unmitigated | 4.5000e-003 | 7.7300e-003 | 0.0822 | 3.2000e-004 | 0.0522 | 2.2000e-004 | 0.0524 | 0.0139 | 2.0000e-004 | 0.0141 | 0.0000 | 29.1230 | 29.1230 | 5.0000e-004 | 0.0000 | 29.1356 |

### 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 30.00 | 30.00 | 30.00 | 140,977 | 140,977 |
| Total | 30.00 | 30.00 | 30.00 | 140,977 | 140,977 |

### 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 13.00 | 20.00 | 5.00 | 97.00 | 1.00 | 2.00 | 100 | 0 | 0 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.491350 | 0.491350 | 0.000000 | 0.017300 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4835 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 26.4835 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| NaturalGas Mitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| NaturalGas Unmitigated | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 659500 | 3.5600e-003 | 0.0323 | 0.0272 | 1.9000e-004 | | 2.4600e-003 | 2.4600e-003 | | 2.4600e-003 | 2.4600e-003 | 0.0000 | 35.1934 | 35.1934 | 6.7000e-004 | 6.5000e-004 | 35.4026 |
| **Total** | | **3.5600e-003** | **0.0323** | **0.0272** | **1.9000e-004** | | **2.4600e-003** | **2.4600e-003** | | **2.4600e-003** | **2.4600e-003** | **0.0000** | **35.1934** | **35.1934** | **6.7000e-004** | **6.5000e-004** | **35.4026** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195500 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| **Total** | | **26.4835** | **1.2400e-003** | **2.7000e-004** | **26.5938** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 195500 | 26.4835 | 1.2400e-003 | 2.7000e-004 | 26.5938 |
| **Total** | | **26.4835** | **1.2400e-003** | **2.7000e-004** | **26.5938** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| Unmitigated | 0.1107 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0130 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0976 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 4.2000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.2000e-004 | 8.2000e-004 | 0.0000 | 0.0000 | 8.7000e-004 |
| **Total** | **0.1107** | **0.0000** | **4.2000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **8.2000e-004** | **8.2000e-004** | **0.0000** | **0.0000** | **8.7000e-004** |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| Unmitigated | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 4.625 / 0 | 5.0265 | 0.0429 | 3.5900e-003 | 7.1704 |
| **Total** | | **5.0265** | **0.0429** | **3.5900e-003** | **7.1704** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| Unmitigated | 6.2927 | 0.3719 | 0.0000 | 15.5900 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 31 | 6.2927 | 0.3719 | 0.0000 | 15.5900 |
| **Total** | | **6.2927** | **0.3719** | **0.0000** | **15.5900** |

## 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

| 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

## ATF Energy Calculations

*Because CalEEMod does not provide an appropriate proxy for the pump station and advanced purification process, GHG emissions from energy usage were calculated separately using energy emissions factors for PG&E adjusted for the 2030 RPS. Conversions of CH4 and NO2 to CO2e were made using U.S. EPA's Greenhouse Gas Equivalencies Calculator.*

| Activity | **Energy Usage (kWH/year)** | **Energy Usage (MWH/year)** |
|---|---|---|
| Pump Station | **700,000.0** | **700** |
| Treatment Process | **7,300,000** | **7300** |
| Total | **8,000,000** | **8,000** |

| | Emissions Factors (lbs/MWh) | Emissions (lbs) | Emissions (MT) | Emissions (MT CO2e) | |
|---|---|---|---|---|---|
| CO2 | 298.35 | 2386800 | 1082.6 | 1082.6 | |
| CH4 | 0.014 | 112 | 0.1 | 0.015 | |
| N2O | 0.003 | 24 | 0.01 | 0.037 | |
| | | | **Total** | **1082.7** | **MT CO2e** |

- Greenhouse gas conversions performed using the U.S. EPA's Greenhouse Gas Equivalencies Calculator. Available at: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

## Groundwater Pumping Energy Calculations

*Because CalEEMod does not provide an appropriate proxy for the pump station and advanced purification process, GHG emissions from energy usage were calculated separately using energy emissions factors for PG&E adjusted for the 2030 RPS. Conversions of CH4 and NO2 to CO2e were made using U.S. EPA's Greenhouse Gas Equivalencies Calculator.*

| Activity | **Energy Usage (kWH/year)** | **Energy Usage (MWH/year)** |
|---|---|---|
| Increased Pumping | **2,560,000.0** | **2560** |
| Total | **2,560,000** | **2,560** |

| | Emissions Factors (lbs/MWh) | Emissions (lbs) | Emissions (MT) | Emissions (MT CO2e) | |
|---|---|---|---|---|---|
| CO2 | 298.35 | 763776 | 346.4 | 346.4 | |
| CH4 | 0.014 | 35.84 | 0.0 | 0.015 | |
| N2O | 0.003 | 7.68 | 0.00 | 0.037 | |
| | | | **Total** | **346.5** | **MT CO2e** |

- Greenhouse gas conversions performed using the U.S. EPA's Greenhouse Gas Equivalencies Calculator. Available at: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

## N2O Operational GHG Emission Mobile Calculations

| Project Code & Title: 15-01882, Central Coast Blue |
|---|

| Vehicle Population Breakdown* | |
|---|---|
| 281904 | Gasoline vehicles |
| 16037 | Diesel vehicles |
| 98.3% | Gasoline vehicle % |
| 1.7% | Diesel vehicle % |

| VMT per Vehicle Type | |
|---|---|
| 140977 | Project VMT (CalEEMod output) |
| 138538 | Gasoline vehicle VMT |
| 2439 | Diesel vehicle VMT |

| Gasoline Vehicles | |
|---|---|
| 98.3% | Gasoline vehicle % |
| 0.0199 | Tons per year mobile NOX emissions (annual output in CalEEMod) |
| 0.02 | Gasoline vehicle tons per year NOX emissions |
| 0.0039 | Tons per year N2O emissions for gasoline vehicles** |
| 0.0036 | Metric tons per year N2O emissions for gasoline vehicles |

| Diesel Vehicles | |
|---|---|
| 1.60 | grams N2O per gallon of fuel for diesel vehicles** |
| 23.44 | Diesel average miles per gallon* |
| 0.06827 | grams per mile N2O for diesel vehicles |
| 166.5 | grams per year N2O for diesel vehicles |
| 0.0001665 | Metric tons per year N2O emissions for diesel vehicles |

| CO2e Emissions from N2O | |
|---|---|
| 0.0037 | Metric tons per year from gasoline + diesel vehicles |
| 298 | GWP of N2O*** |
| **1.1** | **CO2e emissions per year from N2O emissions from gasoline + diesel vehicles** |

| Sources |
|---|
| ***Vehicle population source:**<br>- O&M trips would be made using gasoline vehicles (98.3% of annual trips)<br><br>- Chemical delivery trips would be made using diesel vehicle (1.7% of annual trips)<br><br>****Methodology source:**<br>EMFAC2017 Volume III - Technical Documentation<br>https://www.arb.ca.gov/msei/emfac2011-faq.htm<br><br>*****GWP source:**<br>Intergovernmental Panel on Climate Change (IPCC). 2007.<br>AR4 Climate Change 2007: The Physical Science Basis.<br>Contrbution of Working Group I to the Fourth Assessment Report of the<br>Intergovernmental Panel on Climate Change. |