# 72 Room Congregate 129-133 West Los Feliz

## Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Congregate Care (Assisted Living) | 72.00 | Dwelling Unit | 0.41 | 57,350.00 | 206 |
| Enclosed Parking with Elevator | 29.15 | 1000sqft | 0.00 | 29,145.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 12 | | | **Operational Year** | 2021 |
| **Utility Company** | Glendale Water & Power | | | | |
| **CO2 Intensity (lb/MWhr)** | 1115.33 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Lot: 17,654 SF; 57,350 SF Congregate Care Facility,

Land Use - 72 room, 5-story, 57,350 SF congregate care facility with a 29,145 SF, 2-level, 70 parking space, subterranean garage (Subterranean Level 1: 15,145 SF, and Subterranean Level 2: 14,000 SF)

Construction Phase - grading will occur over a period of 8 days.

Grading - 16,342.59 CY of grading (all export) to accomodate a 2-level suterranean garage

Demolition - Lot has been previous graded and is currently vacant.

Energy Use -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 2.00 | 8.00 |
| tblConstructionPhase | PhaseEndDate | 11/17/2020 | 11/24/2020 |
| tblConstructionPhase | PhaseEndDate | 11/3/2020 | 11/10/2020 |
| tblConstructionPhase | PhaseEndDate | 6/16/2020 | 6/24/2020 |
| tblConstructionPhase | PhaseEndDate | 11/10/2020 | 11/17/2020 |
| tblConstructionPhase | PhaseStartDate | 11/11/2020 | 11/18/2020 |
| tblConstructionPhase | PhaseStartDate | 6/17/2020 | 6/24/2020 |
| tblConstructionPhase | PhaseStartDate | 11/4/2020 | 11/11/2020 |
| tblGrading | MaterialExported | 0.00 | 16,342.59 |
| tblLandUse | LandUseSquareFeet | 72,000.00 | 57,350.00 |
| tblLandUse | LotAcreage | 4.50 | 0.41 |
| tblLandUse | LotAcreage | 0.67 | 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 | | | | | |
| 2020 | 0.2640 | 0.9209 | 0.6856 | 2.0500e-003 | 0.0625 | 0.0333 | 0.0958 | 0.0175 | 0.0309 | 0.0484 | 0.0000 | 190.8720 | 190.8720 | 0.0263 | 0.0000 | 191.5305 |
| **Maximum** | **0.2640** | **0.9209** | **0.6856** | **2.0500e-003** | **0.0625** | **0.0333** | **0.0958** | **0.0175** | **0.0309** | **0.0484** | **0.0000** | **190.8720** | **190.8720** | **0.0263** | **0.0000** | **191.5305** |

### 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 | | | | | |
| 2020 | 0.2640 | 0.9209 | 0.6856 | 2.0500e-003 | 0.0625 | 0.0333 | 0.0958 | 0.0175 | 0.0309 | 0.0484 | 0.0000 | 190.8720 | 190.8720 | 0.0263 | 0.0000 | 191.5304 |
| **Maximum** | **0.2640** | **0.9209** | **0.6856** | **2.0500e-003** | **0.0625** | **0.0333** | **0.0958** | **0.0175** | **0.0309** | **0.0484** | **0.0000** | **190.8720** | **190.8720** | **0.0263** | **0.0000** | **191.5304** |

| | ROG | NOx | 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 | 5-29-2020 | 8-28-2020 | 0.6814 | 0.6814 |
| 2 | 8-29-2020 | 9-30-2020 | 0.1360 | 0.1360 |
| | | Highest | 0.6814 | 0.6814 |

## 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 | 0.4859 | 0.0273 | 1.2022 | 1.2100e-003 | | 0.0729 | 0.0729 | | 0.0729 | 0.0729 | 7.6478 | 15.9100 | 23.5578 | 0.0240 | 5.2000e-004 | 24.3121 |
| Energy | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 276.2379 | 276.2379 | 6.8900e-003 | 2.0300e-003 | 277.0159 |
| Mobile | 0.0633 | 0.3279 | 0.8802 | 3.0400e-003 | 0.2447 | 2.6000e-003 | 0.2473 | 0.0656 | 2.4300e-003 | 0.0680 | 0.0000 | 280.6863 | 280.6863 | 0.0150 | 0.0000 | 281.0609 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.3365 | 0.0000 | 13.3365 | 0.7882 | 0.0000 | 33.0406 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.4883 | 47.5246 | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |
| **Total** | **0.5534** | **0.3916** | **2.0979** | **4.4800e-003** | **0.2447** | **0.0784** | **0.3230** | **0.0656** | **0.0782** | **0.1438** | **22.4726** | **620.3587** | **642.8313** | **0.9881** | **6.4100e-003** | **669.4465** |

## 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 | 0.4859 | 0.0273 | 1.2022 | 1.2100e-003 | | 0.0729 | 0.0729 | | 0.0729 | 0.0729 | 7.6478 | 15.9100 | 23.5578 | 0.0240 | 5.2000e-004 | 24.3121 |
| Energy | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 276.2379 | 276.2379 | 6.8900e-003 | 2.0300e-003 | 277.0159 |
| Mobile | 0.0633 | 0.3279 | 0.8802 | 3.0400e-003 | 0.2447 | 2.6000e-003 | 0.2473 | 0.0656 | 2.4300e-003 | 0.0680 | 0.0000 | 280.6863 | 280.6863 | 0.0150 | 0.0000 | 281.0609 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.3365 | 0.0000 | 13.3365 | 0.7882 | 0.0000 | 33.0406 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.4883 | 47.5246 | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |
| **Total** | **0.5534** | **0.3916** | **2.0979** | **4.4800e-003** | **0.2447** | **0.0784** | **0.3230** | **0.0656** | **0.0782** | **0.1438** | **22.4726** | **620.3587** | **642.8313** | **0.9881** | **6.4100e-003** | **669.4465** |

| | ROG | NOx | 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 | Demolition | Demolition | 5/29/2020 | 6/11/2020 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 6/12/2020 | 6/12/2020 | 5 | 1 | |
| 3 | Grading | Grading | 6/13/2020 | 6/24/2020 | 5 | 8 | |
| 4 | Building Construction | Building Construction | 6/24/2020 | 11/10/2020 | 5 | 100 | |
| 5 | Paving | Paving | 11/11/2020 | 11/17/2020 | 5 | 5 | |
| 6 | Architectural Coating | Architectural Coating | 11/18/2020 | 11/24/2020 | 5 | 5 | |

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 116,134; Residential Outdoor: 38,711; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,749 (Architectural Coating – sqft)**

**<u>OffRoad Equipment</u>**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 2,043.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 64.00 | 12.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Demolition - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | 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 | 4.3400e-003 | 0.0394 | 0.0381 | 6.0000e-005 | | 2.3400e-003 | 2.3400e-003 | | 2.2300e-003 | 2.2300e-003 | 0.0000 | 5.2038 | 5.2038 | 9.8000e-004 | 0.0000 | 5.2284 |
| **Total** | **4.3400e-003** | **0.0394** | **0.0381** | **6.0000e-005** | **0.0000** | **2.3400e-003** | **2.3400e-003** | **0.0000** | **2.2300e-003** | **2.2300e-003** | **0.0000** | **5.2038** | **5.2038** | **9.8000e-004** | **0.0000** | **5.2284** |

## 3.2 Demolition - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.3000e-004 | 1.9000e-004 | 2.0600e-003 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 5.5000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.5107 | 0.5107 | 2.0000e-005 | 0.0000 | 0.5111 |
| **Total** | **2.3000e-004** | **1.9000e-004** | **2.0600e-003** | **1.0000e-005** | **5.5000e-004** | **0.0000** | **5.5000e-004** | **1.5000e-004** | **0.0000** | **1.5000e-004** | **0.0000** | **0.5107** | **0.5107** | **2.0000e-005** | **0.0000** | **0.5111** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 4.3400e-003 | 0.0394 | 0.0381 | 6.0000e-005 | | 2.3400e-003 | 2.3400e-003 | | 2.2300e-003 | 2.2300e-003 | 0.0000 | 5.2038 | 5.2038 | 9.8000e-004 | 0.0000 | 5.2284 |
| **Total** | **4.3400e-003** | **0.0394** | **0.0381** | **6.0000e-005** | **0.0000** | **2.3400e-003** | **2.3400e-003** | **0.0000** | **2.2300e-003** | **2.2300e-003** | **0.0000** | **5.2038** | **5.2038** | **9.8000e-004** | **0.0000** | **5.2284** |

## 3.2 Demolition - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.3000e-004 | 1.9000e-004 | 2.0600e-003 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 5.5000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.5107 | 0.5107 | 2.0000e-005 | 0.0000 | 0.5111 |
| **Total** | **2.3000e-004** | **1.9000e-004** | **2.0600e-003** | **1.0000e-005** | **5.5000e-004** | **0.0000** | **5.5000e-004** | **1.5000e-004** | **0.0000** | **1.5000e-004** | **0.0000** | **0.5107** | **0.5107** | **2.0000e-005** | **0.0000** | **0.5111** |

## 3.3 Site Preparation - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.7000e-004 | 0.0000 | 2.7000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.4000e-004 | 4.2200e-003 | 2.0500e-003 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.5000e-004 | 1.5000e-004 | 0.0000 | 0.4280 | 0.4280 | 1.4000e-004 | 0.0000 | 0.4314 |
| **Total** | **3.4000e-004** | **4.2200e-003** | **2.0500e-003** | **0.0000** | **2.7000e-004** | **1.7000e-004** | **4.4000e-004** | **3.0000e-005** | **1.5000e-004** | **1.8000e-004** | **0.0000** | **0.4280** | **0.4280** | **1.4000e-004** | **0.0000** | **0.4314** |

## 3.3 Site Preparation - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.0000e-005 | 1.0000e-005 | 1.0000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0255 | 0.0255 | 0.0000 | 0.0000 | 0.0256 |
| **Total** | **1.0000e-005** | **1.0000e-005** | **1.0000e-004** | **0.0000** | **3.0000e-005** | **0.0000** | **3.0000e-005** | **1.0000e-005** | **0.0000** | **1.0000e-005** | **0.0000** | **0.0255** | **0.0255** | **0.0000** | **0.0000** | **0.0256** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | 2.7000e-004 | 0.0000 | 2.7000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.4000e-004 | 4.2200e-003 | 2.0500e-003 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.5000e-004 | 1.5000e-004 | 0.0000 | 0.4280 | 0.4280 | 1.4000e-004 | 0.0000 | 0.4314 |
| **Total** | **3.4000e-004** | **4.2200e-003** | **2.0500e-003** | **0.0000** | **2.7000e-004** | **1.7000e-004** | **4.4000e-004** | **3.0000e-005** | **1.5000e-004** | **1.8000e-004** | **0.0000** | **0.4280** | **0.4280** | **1.4000e-004** | **0.0000** | **0.4314** |

## 3.3 Site Preparation - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.0000e-005 | 1.0000e-005 | 1.0000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0255 | 0.0255 | 0.0000 | 0.0000 | 0.0256 |
| **Total** | **1.0000e-005** | **1.0000e-005** | **1.0000e-004** | **0.0000** | **3.0000e-005** | **0.0000** | **3.0000e-005** | **1.0000e-005** | **0.0000** | **1.0000e-005** | **0.0000** | **0.0255** | **0.0255** | **0.0000** | **0.0000** | **0.0256** |

## 3.4 Grading - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 3.9400e-003 | 0.0000 | 3.9400e-003 | 1.8000e-003 | 0.0000 | 1.8000e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.4700e-003 | 0.0315 | 0.0305 | 5.0000e-005 | | 1.8700e-003 | 1.8700e-003 | | 1.7800e-003 | 1.7800e-003 | 0.0000 | 4.1630 | 4.1630 | 7.9000e-004 | 0.0000 | 4.1827 |
| **Total** | **3.4700e-003** | **0.0315** | **0.0305** | **5.0000e-005** | **3.9400e-003** | **1.8700e-003** | **5.8100e-003** | **1.8000e-003** | **1.7800e-003** | **3.5800e-003** | **0.0000** | **4.1630** | **4.1630** | **7.9000e-004** | **0.0000** | **4.1827** |

## 3.4 Grading - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 9.0200e-003 | 0.3034 | 0.0669 | 8.0000e-004 | 0.0176 | 9.4000e-004 | 0.0185 | 4.8200e-003 | 9.0000e-004 | 5.7200e-003 | 0.0000 | 78.7354 | 78.7354 | 5.4800e-003 | 0.0000 | 78.8725 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-004 | 1.5000e-004 | 1.6500e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4085 | 0.4085 | 1.0000e-005 | 0.0000 | 0.4089 |
| **Total** | **9.2000e-003** | **0.3035** | **0.0685** | **8.0000e-004** | **0.0180** | **9.4000e-004** | **0.0189** | **4.9400e-003** | **9.0000e-004** | **5.8400e-003** | **0.0000** | **79.1439** | **79.1439** | **5.4900e-003** | **0.0000** | **79.2814** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | | | | | 3.9400e-003 | 0.0000 | 3.9400e-003 | 1.8000e-003 | 0.0000 | 1.8000e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.4700e-003 | 0.0315 | 0.0305 | 5.0000e-005 | | 1.8700e-003 | 1.8700e-003 | | 1.7800e-003 | 1.7800e-003 | 0.0000 | 4.1630 | 4.1630 | 7.9000e-004 | 0.0000 | 4.1827 |
| **Total** | **3.4700e-003** | **0.0315** | **0.0305** | **5.0000e-005** | **3.9400e-003** | **1.8700e-003** | **5.8100e-003** | **1.8000e-003** | **1.7800e-003** | **3.5800e-003** | **0.0000** | **4.1630** | **4.1630** | **7.9000e-004** | **0.0000** | **4.1827** |

## 3.4 Grading - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 9.0200e-003 | 0.3034 | 0.0669 | 8.0000e-004 | 0.0176 | 9.4000e-004 | 0.0185 | 4.8200e-003 | 9.0000e-004 | 5.7200e-003 | 0.0000 | 78.7354 | 78.7354 | 5.4800e-003 | 0.0000 | 78.8725 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-004 | 1.5000e-004 | 1.6500e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4085 | 0.4085 | 1.0000e-005 | 0.0000 | 0.4089 |
| **Total** | **9.2000e-003** | **0.3035** | **0.0685** | **8.0000e-004** | **0.0180** | **9.4000e-004** | **0.0189** | **4.9400e-003** | **9.0000e-004** | **5.8400e-003** | **0.0000** | **79.1439** | **79.1439** | **5.4900e-003** | **0.0000** | **79.2814** |

## 3.5 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0431 | 0.4426 | 0.3694 | 5.7000e-004 | | 0.0261 | 0.0261 | | 0.0240 | 0.0240 | 0.0000 | 50.0302 | 50.0302 | 0.0162 | 0.0000 | 50.4348 |
| **Total** | **0.0431** | **0.4426** | **0.3694** | **5.7000e-004** | | **0.0261** | **0.0261** | | **0.0240** | **0.0240** | **0.0000** | **50.0302** | **50.0302** | **0.0162** | **0.0000** | **50.4348** |

## 3.5 Building Construction - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.1800e-003 | 0.0650 | 0.0176 | 1.5000e-004 | 3.7800e-003 | 3.0000e-004 | 4.0800e-003 | 1.0900e-003 | 2.9000e-004 | 1.3800e-003 | 0.0000 | 14.9056 | 14.9056 | 9.5000e-004 | 0.0000 | 14.9293 |
| Worker | 0.0148 | 0.0119 | 0.1317 | 3.6000e-004 | 0.0351 | 3.0000e-004 | 0.0354 | 9.3100e-003 | 2.8000e-004 | 9.5900e-003 | 0.0000 | 32.6832 | 32.6832 | 1.0300e-003 | 0.0000 | 32.7090 |
| **Total** | **0.0170** | **0.0769** | **0.1493** | **5.1000e-004** | **0.0389** | **6.0000e-004** | **0.0394** | **0.0104** | **5.7000e-004** | **0.0110** | **0.0000** | **47.5888** | **47.5888** | **1.9800e-003** | **0.0000** | **47.6382** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.0431 | 0.4426 | 0.3694 | 5.7000e-004 | | 0.0261 | 0.0261 | | 0.0240 | 0.0240 | 0.0000 | 50.0302 | 50.0302 | 0.0162 | 0.0000 | 50.4347 |
| **Total** | **0.0431** | **0.4426** | **0.3694** | **5.7000e-004** | | **0.0261** | **0.0261** | | **0.0240** | **0.0240** | **0.0000** | **50.0302** | **50.0302** | **0.0162** | **0.0000** | **50.4347** |

## 3.5 Building Construction - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.1800e-003 | 0.0650 | 0.0176 | 1.5000e-004 | 3.7800e-003 | 3.0000e-004 | 4.0800e-003 | 1.0900e-003 | 2.9000e-004 | 1.3800e-003 | 0.0000 | 14.9056 | 14.9056 | 9.5000e-004 | 0.0000 | 14.9293 |
| Worker | 0.0148 | 0.0119 | 0.1317 | 3.6000e-004 | 0.0351 | 3.0000e-004 | 0.0354 | 9.3100e-003 | 2.8000e-004 | 9.5900e-003 | 0.0000 | 32.6832 | 32.6832 | 1.0300e-003 | 0.0000 | 32.7090 |
| **Total** | **0.0170** | **0.0769** | **0.1493** | **5.1000e-004** | **0.0389** | **6.0000e-004** | **0.0394** | **0.0104** | **5.7000e-004** | **0.0110** | **0.0000** | **47.5888** | **47.5888** | **1.9800e-003** | **0.0000** | **47.6382** |

## 3.6 Paving - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.9300e-003 | 0.0181 | 0.0178 | 3.0000e-005 | | 9.9000e-004 | 9.9000e-004 | | 9.2000e-004 | 9.2000e-004 | 0.0000 | 2.3482 | 2.3482 | 6.8000e-004 | 0.0000 | 2.3653 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **1.9300e-003** | **0.0181** | **0.0178** | **3.0000e-005** | | **9.9000e-004** | **9.9000e-004** | | **9.2000e-004** | **9.2000e-004** | **0.0000** | **2.3482** | **2.3482** | **6.8000e-004** | **0.0000** | **2.3653** |

## 3.6 Paving - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.1000e-004 | 1.7000e-004 | 1.8500e-003 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.4596 | 0.4596 | 1.0000e-005 | 0.0000 | 0.4600 |
| **Total** | **2.1000e-004** | **1.7000e-004** | **1.8500e-003** | **1.0000e-005** | **4.9000e-004** | **0.0000** | **5.0000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.4596** | **0.4596** | **1.0000e-005** | **0.0000** | **0.4600** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.9300e-003 | 0.0181 | 0.0178 | 3.0000e-005 | | 9.9000e-004 | 9.9000e-004 | | 9.2000e-004 | 9.2000e-004 | 0.0000 | 2.3482 | 2.3482 | 6.8000e-004 | 0.0000 | 2.3653 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **1.9300e-003** | **0.0181** | **0.0178** | **3.0000e-005** | | **9.9000e-004** | **9.9000e-004** | | **9.2000e-004** | **9.2000e-004** | **0.0000** | **2.3482** | **2.3482** | **6.8000e-004** | **0.0000** | **2.3653** |

## 3.6 Paving - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.1000e-004 | 1.7000e-004 | 1.8500e-003 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.4596 | 0.4596 | 1.0000e-005 | 0.0000 | 0.4600 |
| **Total** | **2.1000e-004** | **1.7000e-004** | **1.8500e-003** | **1.0000e-005** | **4.9000e-004** | **0.0000** | **5.0000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.4596** | **0.4596** | **1.0000e-005** | **0.0000** | **0.4600** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1835 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.1000e-004 | 4.2100e-003 | 4.5800e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.8000e-004 | 2.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 5.0000e-005 | 0.0000 | 0.6396 |
| **Total** | **0.1841** | **4.2100e-003** | **4.5800e-003** | **1.0000e-005** | | **2.8000e-004** | **2.8000e-004** | | **2.8000e-004** | **2.8000e-004** | **0.0000** | **0.6383** | **0.6383** | **5.0000e-005** | **0.0000** | **0.6396** |

## 3.7 Architectural Coating - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.5000e-004 | 1.2000e-004 | 1.3400e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3319 | 0.3319 | 1.0000e-005 | 0.0000 | 0.3322 |
| **Total** | **1.5000e-004** | **1.2000e-004** | **1.3400e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3319** | **0.3319** | **1.0000e-005** | **0.0000** | **0.3322** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.1835 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.1000e-004 | 4.2100e-003 | 4.5800e-003 | 1.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.8000e-004 | 2.8000e-004 | 0.0000 | 0.6383 | 0.6383 | 5.0000e-005 | 0.0000 | 0.6396 |
| **Total** | **0.1841** | **4.2100e-003** | **4.5800e-003** | **1.0000e-005** | | **2.8000e-004** | **2.8000e-004** | | **2.8000e-004** | **2.8000e-004** | **0.0000** | **0.6383** | **0.6383** | **5.0000e-005** | **0.0000** | **0.6396** |

### 3.7 Architectural Coating - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.5000e-004 | 1.2000e-004 | 1.3400e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3319 | 0.3319 | 1.0000e-005 | 0.0000 | 0.3322 |
| **Total** | **1.5000e-004** | **1.2000e-004** | **1.3400e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3319** | **0.3319** | **1.0000e-005** | **0.0000** | **0.3322** |

## 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 | 0.0633 | 0.3279 | 0.8802 | 3.0400e-003 | 0.2447 | 2.6000e-003 | 0.2473 | 0.0656 | 2.4300e-003 | 0.0680 | 0.0000 | 280.6863 | 280.6863 | 0.0150 | 0.0000 | 281.0609 |
| Unmitigated | 0.0633 | 0.3279 | 0.8802 | 3.0400e-003 | 0.2447 | 2.6000e-003 | 0.2473 | 0.0656 | 2.4300e-003 | 0.0680 | 0.0000 | 280.6863 | 280.6863 | 0.0150 | 0.0000 | 281.0609 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Congregate Care (Assisted Living) | 197.28 | 158.40 | 175.68 | 644,612 | 644,612 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 197.28 | 158.40 | 175.68 | 644,612 | 644,612 |

## 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 |
| Congregate Care (Assisted | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Congregate Care (Assisted Living) | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |
| Enclosed Parking with Elevator | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |

## 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 | 234.0576 | 234.0576 | 6.0900e-003 | 1.2600e-003 | 234.5849 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 234.0576 | 234.0576 | 6.0900e-003 | 1.2600e-003 | 234.5849 |
| NaturalGas Mitigated | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 42.1803 | 42.1803 | 8.1000e-004 | 7.7000e-004 | 42.4310 |
| NaturalGas Unmitigated | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 42.1803 | 42.1803 | 8.1000e-004 | 7.7000e-004 | 42.4310 |

## 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 | | | | | |
| Congregate Care (Assisted Living) | 790429 | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 42.1803 | 42.1803 | 8.1000e-004 | 7.7000e-004 | 42.4310 |
| Enclosed Parking with Elevator | 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** | | **4.2600e-003** | **0.0364** | **0.0155** | **2.3000e-004** | | **2.9400e-003** | **2.9400e-003** | | **2.9400e-003** | **2.9400e-003** | **0.0000** | **42.1803** | **42.1803** | **8.1000e-004** | **7.7000e-004** | **42.4310** |

**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 | | | | | |
| Congregate Care (Assisted Living) | 790429 | 4.2600e-003 | 0.0364 | 0.0155 | 2.3000e-004 | | 2.9400e-003 | 2.9400e-003 | | 2.9400e-003 | 2.9400e-003 | 0.0000 | 42.1803 | 42.1803 | 8.1000e-004 | 7.7000e-004 | 42.4310 |
| Enclosed Parking with Elevator | 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** | | **4.2600e-003** | **0.0364** | **0.0155** | **2.3000e-004** | | **2.9400e-003** | **2.9400e-003** | | **2.9400e-003** | **2.9400e-003** | **0.0000** | **42.1803** | **42.1803** | **8.1000e-004** | **7.7000e-004** | **42.4310** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Congregate Care (Assisted Living) | 291861 | 147.6542 | 3.8400e-003 | 7.9000e-004 | 147.9869 |
| Enclosed Parking with Elevator | 170790 | 86.4034 | 2.2500e-003 | 4.6000e-004 | 86.5981 |
| **Total** | | **234.0576** | **6.0900e-003** | **1.2500e-003** | **234.5849** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Congregate Care (Assisted Living) | 291861 | 147.6542 | 3.8400e-003 | 7.9000e-004 | 147.9869 |
| Enclosed Parking with Elevator | 170790 | 86.4034 | 2.2500e-003 | 4.6000e-004 | 86.5981 |
| **Total** | | **234.0576** | **6.0900e-003** | **1.2500e-003** | **234.5849** |

# 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 | 0.4859 | 0.0273 | 1.2022 | 1.2100e-003 | | 0.0729 | 0.0729 | | 0.0729 | 0.0729 | 7.6478 | 15.9100 | 23.5578 | 0.0240 | 5.2000e-004 | 24.3121 |
| Unmitigated | 0.4859 | 0.0273 | 1.2022 | 1.2100e-003 | | 0.0729 | 0.0729 | | 0.0729 | 0.0729 | 7.6478 | 15.9100 | 23.5578 | 0.0240 | 5.2000e-004 | 24.3121 |

## 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 | 0.0184 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2091 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.2358 | 0.0187 | 0.4577 | 1.1700e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | 7.6478 | 14.6964 | 22.3442 | 0.0228 | 5.2000e-004 | 23.0690 |
| Landscaping | 0.0226 | 8.5900e-003 | 0.7445 | 4.0000e-005 | | 4.1000e-003 | 4.1000e-003 | | 4.1000e-003 | 4.1000e-003 | 0.0000 | 1.2136 | 1.2136 | 1.1800e-003 | 0.0000 | 1.2430 |
| **Total** | **0.4859** | **0.0273** | **1.2022** | **1.2100e-003** | | **0.0729** | **0.0729** | | **0.0729** | **0.0729** | **7.6478** | **15.9100** | **23.5578** | **0.0240** | **5.2000e-004** | **24.3121** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0184 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2091 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.2358 | 0.0187 | 0.4577 | 1.1700e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | 7.6478 | 14.6964 | 22.3442 | 0.0228 | 5.2000e-004 | 23.0690 |
| Landscaping | 0.0226 | 8.5900e-003 | 0.7445 | 4.0000e-005 | | 4.1000e-003 | 4.1000e-003 | | 4.1000e-003 | 4.1000e-003 | 0.0000 | 1.2136 | 1.2136 | 1.1800e-003 | 0.0000 | 1.2430 |
| **Total** | **0.4859** | **0.0273** | **1.2022** | **1.2100e-003** | | **0.0729** | **0.0729** | | **0.0729** | **0.0729** | **7.6478** | **15.9100** | **23.5578** | **0.0240** | **5.2000e-004** | **24.3121** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |
| Unmitigated | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Congregate Care (Assisted Living) | 4.69109 / 2.95743 | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **49.0128** | **0.1541** | **3.8600e-003** | **54.0170** |

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Congregate Care (Assisted Living) | 4.69109 / 2.95743 | 49.0128 | 0.1541 | 3.8600e-003 | 54.0170 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **49.0128** | **0.1541** | **3.8600e-003** | **54.0170** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 13.3365 | 0.7882 | 0.0000 | 33.0406 |
| Unmitigated | 13.3365 | 0.7882 | 0.0000 | 33.0406 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Congregate Care (Assisted Living) | 65.7 | 13.3365 | 0.7882 | 0.0000 | 33.0406 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.3365** | **0.7882** | **0.0000** | **33.0406** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Congregate Care (Assisted Living) | 65.7 | 13.3365 | 0.7882 | 0.0000 | 33.0406 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.3365** | **0.7882** | **0.0000** | **33.0406** |

## 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